

U.S. PTO



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SUBSTITUTE SPECIFICATION MARKED-UP VERSION

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FIGURE 1812B

CTGTTCCCTTTCCAGTTGTTGGGCCATCTGGTCCCCACCACCGCCACCCTATGGGGGAGACCTCCCTCCCCACGG
GTCACCCTAAAGCCCACAACCTCTCTGAGCCTCCCTGGCCTGAAAGGGGATGCAGGCTTCAGGAGGCAAGAAGCT
GGGCCCCCTGGGGGTGGCTGGGGAGAGGGAATGCATTTCCCTTGCCACAGGTGGTCTGCTTCTGCTGGCCTGAGCT
CCAAGTGGAGCAGCCCCGGGCCAGCCTTGGTGCATGAAGAGGCACCAGGCACACCGCCTTGAGGTGGGCAGTGCCC
ATGGGGGCCCCGAGTGGATGGGACCGAGGTGAGTGGAGCCTCCTTCCTCCCTCTCTAGTACCCCCGCTCCCCAC
ACACTTGCACGGATCGGCCTCCCTTGGGAGATCAGCCTCCAATGGGCCCCCTCGTCCACCCTTGCTGCTTTCCATTT
GCCTAATTACCAAGCAGAAGTTGCAATCTGGTTTGCTTTATTTTTGTATGTGAAATAACCCCCAAAGCCCAATCT
CCTCTACGTTCAATATTGGTTGGGGCATCCGTCACTCTCCCTTAAGTGCGCCCCCTCCCCACCCAAGTATCATA
GGAAACCGGTGAGGTCTGGTGTCTCTGGTTTGAGACGGTAAGTTGGGACCCATCCCTGTCTGGGTGCCCCACTCTG
ACCTTTAGTTTGCCCTTCTGTGAAATGGGTGTATTGGGTAGCAAGCCCTCTTCAGAAAGCGCTGCTGGTGTGAGA
GCAGCTGCCCCAGTACCAGGTGGGGGGTCAAGGTGCTGGTACTGGGGCCCCAGCTGCCACAAACCCCTCTTTGT
TCTCACCTGCAAAGGGGTCAAGGTCAAAATGAGCCTCATCCTTCCTATGATCTGGGAAGAGGTGATGATCAAGT
CCCCAAGCTTCAGTGTGAGGTGGACAGAGTTGGGGGATGGCCCTTTTTGAAGAGGTGAAATGTTTTGGAGAA
GCGCAGCTGCTTCACTGGGGGAATGCGGCAGGACTGGGGCCAGGATGCTTTGGCCTATGGGGAAAAGCCCTTT
AAAAGCGAGGGCCCAGGCCCTGGAGCCAGCACAAAGACTGGCCTCGAGCCCTGAGCCAGGAGGTCTGGAGGAGA
GCCAGGCCGGTGGGGCCGCCAAGGCTGGAGGTGAGCCCCAACAGGGAGCTGGGTGGCCAGGGGGCTGGACTG
CTACCAGCCTCTCTGGCCTATGGGGACCCAAGAGGACACATCCCCCTTTTGCCCACTCTTCTGTGTCATTTTGT
GTTTTGGTTTGTGGTGGTTTTTCTTTTTTCTTTGTTTTTCTTTTTTCTTCTTTCTTTTTTTTTTTTTTTTTT
TTTTTTTTTGCACTTCGCCCACACAGGACAGTGGAGCCCCACCTGGTCACTTCCACTTCCGGGCTCCCATGCACTT
GCCCCAAGCGGCCTCTTTGGGACGGGGATGGTTTGAGGAAACACTTTTAAAGAAAAAGGAAGACATTGAAAGGT
TTTAGTTTCTTCCCTAICTGCATGTCTCTCATATAGAAAGCCCAGAATTAGGGGCTAGAACTCCAGGAGAGGGT
CTCCCCGACTCATCTCTTGCTGACGGTCACCAGGATGCAGAAATAGGGAGATGGTTAGTGGGGGCCAAAGATGCC
CCCTCCCAGGCCTTCGTGGTTCCCTCCTCCGCCCCCTGCAATCTTTGGAGGAGTCAGTGCCTCACTCCAGCAGTG
AGTGCCTACTGTATGCAGGTAGTCAGCCAGGCAAAGAGAGACTAACGGTCTCATGGGGGAACCCCTCTGCGGGAG
GCCGGGTAGCTGGAGCGAAGCGTTCCGGCTGCCCTTGCTGCTGGGTGGAGTGGAGAGGGAGACTCTTTTTGTG
GTTTTAATTTAAAAACACAAAGGCCTAAAGAAATACGTATCTTATAATTTTTTAAATTTTGGAGACGTTCAATTA
ATGAATTGTGCACGAATGAATTCTATATATATAAAATATACATATATAGCTCTATATTTGGGGAGGGGCACTGTC
TCTTTTTCTCTCATTTTTTAAATGAAGTGTTGTGCTTTGTATGTGGTTCAACCATCCAGCTCCCAGCTGGCT
AAACTTTGCCTCCAGTGGTCAAAGATGGGAAAAGAGTGGGGTTGGCAGGAGATGGAAAACGGAGGTGCCGCCCCA
GCATGGGGGGCAGGTCCCCCAGTCCACCCTGCCCTCCCCCTGTGGAGAAGACGCTTAGTTGGGGGTGTGGGTTT
GGGCTCCATTCTGGATTGCGCGGTTCCGGGGAGGGGTGGGTCTGTGCCGATTACTCTGTCTTGTACGTTGTTC
TGCTGCTCTTCAATATTGTATCAACGCCAGGAAAGGGGGTGAAAAGCCTCTTTTACCCCCCAAATAAATTGTCA
CATTCCGAAGCTGA

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FIGURE 1813

MELSAVGERVFAAESIIKRRIRKGRIEYLVKWKGWAIKYSTWEPEENILDSRLIAAFEQKERERELYGPKKRGPK
PKTFLLKARAQAEALRISDVHFSVKPSASASSPKLHSSAAVHRLKDIRRCHMSRRPLPRPDFQGGSPGLRPPI
SPFSETVRIINRKVKPREPKRNRIILNLKVIDKGAGGGGAGQGAGALARPKVPSRNRVIGKSKKFSESVLRITQIR
HMKFGAFALYKPPPAFLVAPSPGKAEASAPGPGLLLAAPAPYDARSSGSSGCPSTPQSSDPDDTPPKLLPETV
SPSAPSWREPEVLDLSLPPESAATSKRAPPEVTAAGPAPPTAPEPAGASSEPEAGDWRPEMSPCSNVVVDVTS
NLLVTIKEFCNPEDFEKVAAGVAGAAGGGGSIGASK

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FIGURE 1814

ACGCGCGCCCTGCGGAGCCCGCCCAACTCCGGCGAGCCGGGCGCTGCGCCTACTCCTCCTCCTCCTCCTCCCGGCGG
CGGCTGCGGCGGAGGCGCCGACTCGGCCTTGCGCCCGCCCTCAGGCGCGCGGGCGGCGCAGCGAGGCCCCGGG
CGGCGGGTGGTGGCTGCCAGGCGGCTCGGCCGCGGGCGCTGCCCGCCCCGGCGAGCGGAGGGCGGAGCGCGGCG
CCGGAGCCGAGGGCGCGCCGCGGAGGGGGTGTGGCCGCGCTGTGCCCGGCCGGGCGGCGCTGCAAGAGGAGG
CCGGAGGCGAGCGCGGGGCCGGTGGGCGCGCAGGGCGGCTCGCAGCTCGCAGCCGGGGCCGGGCCAGGCGTT
CAGGCAGGTGATCGGTGTGGCGGGCGGCGGGCGGCCCCAGACTCCCTCCGGAGTTCTTCTTGGGGCTGATG
TCCGCAAATATGCAGAATTACCGCCGGGTGCTCCTGAAGCCAGCGCGGGAGCGAGCGGGCGGCGGCCAGCA
CCGGGAACGCACCGAGGAAGAAGCCAGCCCCGCGCTCCGCCCTTCCGTCCCCACCCCTACCCGGCGGCCCA
GGAGGCTCCCCGGCTGCGGCGGCACTCCCTGTTTTCTCCTCCTCGGCTGGCGCTGCCTGCCTCTCCGCACTCA
CTGCTCGCCGGCGCCGTCCGCCAGCTCCGTGCTCCCCGCGCCACCTCTCCTCGGGCCGCGCTCCCTAAGGGATG
GTACTGAATTTGCGCCGCACAGGAGACCGGCTGGAGCGCCCGCGCCCTCGCCTCTCCTCCGAGCAGCCAGC
GCCTCGGGAGCGCATGAGGACCTTGCTTGCTGCTCCTCGGCTGCGGATACCTCGCCCATGTTCTGCGCGA
GGAAGCCGAGATCCCCCGCGAGGTGATCGAGAGGCTGGCCCGCAGTCAGATCCACAGCATCCGGGACCTCCAGCG
ACTCCTGGAGATAGACTCCGTAGGGAGTGAGGATTCTTTGGACACCAGCCTGAGAGCTCACGGGGTCCACGCCAC
TAAGCATGTGCCGAGAAGCGGCCCTGCCATTTCGGAGGAAGAGAAGCATCGAGGAAGCTGTCCCCGCTGTCTG
CAAGACCAGGACGGTCATTTACGAGATTCTCCTCGAGTCAGGTGACCCACGTCGCCAACTTCTGTATCTGGCC
CCCGTGGTGGAGGTGAAACGCTGCACCGGCTGCTGCAACACGAGCAGTGTAAGTGCCAGCCCTCCCGCTCCA
CCACCGCAGCGTCAAGGTGGCCAAGGTGGAATACGTCAGGAAGAAGCCAAAATTAAAGAAGTCCAGGTGAGGTT
AGAGGAGCATTGGAGTGCGCCTGCGCGACCACAAGCCTGAATCCGGATTATCGGGAAGAGGACACGGGAAGGCC
TAGGGAGTCAGGTAAAAACGGAAGAAAAGGTTAAACCCACCTAAGATGTGAGGTGAGGATGAGCCGAGC
CCTTCTGGGACATGGATGTACATGGCGTGTACATTCTGAACCTACTATGTACGGTGCTTTATTGCCAGTGT
GCGGTCTTTGTTCTCCTCCGTGAAAACTGTGTCCGAGAACACTCGGGAGAACAAAGAGACAGTGACATTTGTT
TAATGTGACATCAAAGCAAGTATTGTAGCACTCGGTGAAGCAGTAAGAAGCTTCCTTGTCAAAAAGAGAGAGA
GAGAGAGAGAGAGAAAAACAAACCACAAATGACAAAAACAAAACGGAATCACAAAAATATCTAAACTCGATGAGA
TGGAGGGTCGCCCCGTGGGATGGAAGTGCAAGGTCTCAGCAGACTGGATTTCTGTCCGGGTGGTCACAGGTGCT
TTTTTCCGAGGATGCAGAGCCTGCTTTGGGAACGACTCCAGAGGGTGCTGGTGGGCTCTGCAGGGCCCGCAGG
AAGCAGGAATGTCTTGAAACCGCCACGCGAACTTTAGAAACACACCTCCTCGCTGTAGTATTTAAGCCATAC
AGAAACCTTCTGAGAGCCTTAAGTGGTTTTTTTTTTTGTGTTTTGTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTACACCATAAAGTGATTATTAAGCTTCCTTTTACTCTTTGGCTAGCTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTAATTATCTCTTGGATGACATTTACACCGATAACACACAGGCTGCTGTAACGTGACAGACA
GTGCGACGGTATTTTCTAGCAAGATGCAAACTAATGAGATGTATTAATAATAACATGGTATACCTACCTATGC
ATCATTTCTAAATGTTTCTGGCTTTGTGTTTCTCCCTTACCCTGCTTTATTTGTTAATTTAAGCCATTTTGA
GAACTATGCGTCAACCAATCGTACGCCGTCCCTGCGGCACCTGCCCCAGAGCCCGTTGTGGCTGAGTGACA
TGTTCCCCGAGTGACACCTAGAATGCTGTGTCCACGCGGCACGTGAGATGCATTGCCGCTTCTGTCTGTGT
TGTTGGTGTGCCCTGGTGGCGGTGCTCCCTCTGCTGCCAGTGTGTTGGACAGAACCCAAATCTTTA
TTTTTGGTAAGATATTGTGCTTTACCTGTATTAACAGAAATGTGTGTGTGTTGTTTTTTTTGTAAAGGTGAA
GTTTGTATGTTTACCTAATATTACCTGTTTTGTATACCTGAGAGCCTGCTATGTCTTCTTTTGTGATCCAAA
TTAAAAAAAATAACCAAC

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FIGURE 1815

MRTLACLLLLGCGYLAHVLAEEAEIPREVIERLARSQIHSIRDLQRLLEIDSVGSEDSLDTSRAHGVHATKHVP
EKRPLPIRRKRSIEEAVPAVCKTRTVIYEIPRSQVDPTSANFLIWPPCVEVKRCTGCCNTSSVKCQPSRVHHRVS
KVAKVEYVRKKPKLKEVQVRLEEHLECACATTSLNPDYREEDTGRPRESGKKRKRRLKPT

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FIGURE 1816

CGCTGCTTAGGCTCCGCGGCCCTCCAAGCTGTAGCTATGACGGCGCGCGGGACTCCGAGCCGCTTCTTGCCAGCG
TTCTCCACAACGGACTGGGTCGCTATGTGCAGCAGCTGCAGCGTCTGAGCTTCAGCGTCAGCCGCGACGGCGCCT
CGTCTCGCGGCCAGGGAGTTCGTGGAGCGGGAGGTGATCGACTTCGCCCAGCGAATCCAGGGGTCGTAATAT
ATGTAAACTCGCGTCCGTGCTGCGTGCCAGAGTAGTGGCCGAATACCTTAACGGGGCTGTGCGCGAGGAGAGCA
TCCACTGCAAGTCGGTCGAGGAGATCTCGACGCTGGTGCAGAAGCTGGCCGACCAGTCGGGCTTGACGTGATCC
GCATCCGCAAGCCCTTCCACACCGACAACCCTAGCATCCAGGGCCAGTGGACCCCTTCACCAACAAGCCGACCAC
GTTCCGCGGGCTACGCCCCGAGAGGTTTCCAGGATCCTGCCCCAGCCAGGTGCAAGCACAGTGAAGAGTTGCCCC
ACCAACTGCAGCCCCAGGCTTTGGACTGTTACTCCGGTAAAGGTGGTTCTTCCCCTTTGGGATTCCAAGCCCAGG
CAAATGGAACCCATCAATGGGCAAGTTGACAGAGGTTCTGCTTGGGATAATGAAGAGCTGCCTGTTTCTTTCCAG
TGCTTGCTTCTGGGGGCAGTGACCTTGTGAACCACTCATTTTTATGCAAGTGGCATCCCTAAAACCTGAGATGAG
GAAGACTTCAAGGGTTTTACAGGGCCCTTGTTTTTAAATCCAAATTGATAATAATGATCTCAAAACACAGTGAG
AGGTCTGAAGGCTGGCTTCTGAAGAATCCCTGATGTCTTATGGAAACAACCACTGAGCTACGGAGAGCTCTGCTG
TGATGGGCTAGGCACTTTATATCTGTGTGAATACAGATTTATAAAACAGGTTAATAAACTTATCCAAGGTCA

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FIGURE 1817

MTARGTPSRFLASVLHNLGGRYVQQLQRLSFSVSRDGASSRGAREFVEREVIDFARRNPGVVIYVNSRPCCVPRV
VAEYLNAGVREESIHCKSVEEISTLVQKLADQSGLDVIRIRKPFHTDNPSIQGQWTPSPTSRRPSAGYAPERERI
LPQPRCKHSEELPHQLQPQALDCYSGKGGSSPLGFQAQANGTHQWAS

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FIGURE 1818

ACGAGGCTGAGCGGGACCTGCGAGCAGCGCGGGCGGCAGCCGGGGGAAGCGTCCGGGACCATGTCTGGAGAACT
ACCACCAAACATTAACATCAAGGAACCTCGATGGGATCAAAAGCACTTTCATTGGACGAGCCAATCATTCTTCAC
TGTAAGTACCCAGGAACATTCTGTAAACCAACGAACAACCTCGAGAGTGCGAGAAAAATAGTACATGATTACAG
GCAAGGAATTGTTCTCTGCTTACAGAAAATGAATTGTGGAGAGCAAAGTACATCTATGATTACGCTTTTCA
TCCTGACACTGGTGAGAAGATGATTTTGATAGGAAGAATGTCAGCCAGGTTCCCATGAACATGACCATCACAGG
TTGTATGATGACGTTTTACAGGACTACGCCGGCTGTGCTGTTCTGGCAGTGGATTAAACCAGTCCCTCAATGCCGT
CGTCAATTACACCAACAGAAGTGGAGACGCACCCCTCACTGTCAATGAGTTGGGAACAGCTTACGTTTCTGCAAC
AACTGGTGCCGTAGCAACAGCTCTAGGACTCAATGCATTGACCAAGCATGTCTCACCCTGATAGGACGTTTTGT
TCCCTTTGCTGCCGTAGCTGCTGCTAATTGCATTAATATTTCCATTAATGAGGCAAAGGGAAGTCAAAGTTGGCAT
TCCCGTCACGGATGAGAAATGGGAACCGCTTGGGGGAGTCGGCGAACGCTGCGAAACAAGCCATCACGCAAGTTGT
CGTGTCAGGATTCTCATGGCAGCCCTGGCATGGCCATCCCTCCATTCAATTATGAACACTTTGGAAAAGAAAGC
CTTTTTGAAGAGGTTCCCATGGATGAGTGCACCCATTCAAGTTGGGTTAGTTGGCTTCTGTTTGGTGTGTTGCTAC
ACCCCTGTGTTGTGCCCTGTTTCTCAGAAAAGTTCCATGTCTGTGACAAGCTTGGAGGCCGAGTTGCAAGCTAA
GATCCAAGAGAGCCATCCTGAATTGCGACGCGTGTACTTCAATAAGGGATTGTAAAGCAGGGAGGAAACCTCTGC
AGCTCATTCTGCCACTGCAAAGCTGGTGTAGCCATGCTGGTGAGAAAAATCCTGTTCAACCTGGGTTCTCCAGT
TACGGAACCTTTTTAAAGATCCACATTAGCCTTTTAGAATAAAGCTGCTACTTTAACAGAGCACCTGGCGTGGGC
CAAGTGCCCTGATACTCCCTTACACTGAATCATGTTATGATTTATAGAAATACCTTTCTGTAGCTTTTATAGTCA
TTGTTTTTCAAAGACGATATACCAGCCCTCACCCAGGTTTTAAAAAAGCACTGGTAGGCATAGAATAGGTGCTCA
GTATATGGTCAGTAAATGTTCTATTGATTATCAATCAGTAAAAAAAAAAAAAAAAAAAAAAAAAGGAGATTATAA
AAGGATGATGAACATGGAGCTGCAICTTTTTAAACGTTGTTTTTTGATGCTTCAGACTCTTAATGCTTTTATAT
AAAGCTATCAACTGTATGTTGATCACAGTTTATAAGAAAGAACAAATCAAGATTGGCAATCCTTGCCGATCTTTT
AGAAATACCTTTTCTGGAGAAAAAAATCCACATGAAGTGAATAAGCTTATAAAGCTAAGTAGTTATTAATATT
TCTATTAACATGATACAAAGGATGATGATTGTAAGTGTCTACTGACTGGCAGCTTTTATTTTCACTATTAGCACAG
CGTCTTGCCAGTGTTGGAGGCCATGTATTATTTTCACTGGATGAAATGTTAAATAAATCAGAATGAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1819

MSGELPPNINIKEPRWDQSTFIGRANHFFTVDPRNILLTNEQLESARKIVHDYRQGIVPPGLTENELWRAKYIY
DSAFHPDTGEKMILIGRMSAQVPMNMTITGCMMTFYRTTPAVLFWQWINQSFNAVVNVTNRSGDAPLTVNELGTA
YVSATTGAVATALGLNALTKHVSPLIGRFVPFAAVAAANCINIPLMRQRELKVGIPVTDENG NRLGESANA AKQA
ITQVVVSRILMAAPGMAIPPFIMNTLEKKAFLKRFPWMSAPIQVGLVGFCLVFATPLCCALFPQKSSMSVTSLEA
ELQAKIQESHPELRRVYFNKGL

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FIGURE 1820

CCTGTCTCAAAAAAAAAAAAAATATCACCCCTTAAATCAACAAAAAGACCTCATGCTCATGCAGTGGACATTTCTT
GGCCTGTTTTCTGTGGGTTTTCTTCAGCATTGATATGAAGCAACTGTTGGCATAGCCAGTGGGATAAATAAGAAA
TGGAATCATTGGCTGCCTCGTCACTTGTGCTAATGGTCAGTTGTACACACATGACATGTGGAAGTGACCTGTAG
CAGCGGTCACTCATTTTAACAATTGAACTCTGCTGGGTGGGTATTTACCTTTGTCTAGAAAAGAAATATGATAT
ATTTCTCTAAATAAATTTATTTTCATCATTCCAAAA

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FIGURE 1821

PVSKKKKISPLNQKDLMLMQWTFGLFSCGFSSA

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FIGURE 1822

GTCACCCCAGCGGGCGGGCCGGAGCACGGGCACCCAGCATGGGGGTACTGCTCACACAGAGGACGCTGCTCA
GTCTGGTCCTTGCACTCCTGTTTCCAAGCATGGCGAGCATGGCGGCTATAGGCAGCTGCTCGAAAGAGTACCGCG
TGCTCCTTGCCAGCTCCAGAAGCAGACAGATCTCATGCAGGACACCAGCAGACTCCTGGACCCCTATATACGTA
TCCAAGGCCTGGATGTTCTAACTGAGAGAGCACTGCAGGGAGCGCCCCGGGGCCTTCCCCAGTGAGGAGACCC
TGAGGGGGCTGGGCAGGCGGGGCTTCCTGCAGACCCCTCAATGCCACACTGGGCTGCGTCTGCACAGACTGGCCG
ACTTAGAGCAGCGCCTCCCCAAGGCCCAGGATTTGGAGAGGTCTGGGCTGAACATCGAGGACTTGGAGAAGCTGC
AGATGGCGAGGCCGAACATCCTCGGGCTCAGGAACAACATCTACTGCATGGCCCAGCTGCTGGACAACCTCAGACA
CGGCTGAGCCCACGAAGGCTGGCCGGGGGGCCTCTCAGCCGCCCCACCCCAACCCCTGCCTCGGATGCTTTTCAGC
GCAAGCTGGAGGGCTGCAGGTTCTTGATGGCTACCATCGCTTCATGCACTCAGTGGGGCGGGTCTTCAGCAAGT
GGGGGGAGAGCCCAACCGGAGCCGGAGACACAGCCCCCACCAGGCCCTGAGGAAGGGGTGCGCAGGACCAGAC
CCTCCAGGAAAGGCAAGAGACTCATGACCAGGGGACAGCTGCCCGGTAGCCTCGAGAGCACCCCTTGCCGGTGA
AGGATGCGGCAGGTGCTCTGTGGATGAGAGGAACCATCGCAGGATGACAGCTCCCGGGTCCCCAACCTGTTCCC
CTCTGCTACTAGCCACTGAGAAGTGCACTTTAAGAGGTGGGAGCTGGGCAGACCCCTCTACCTCCTCCAGGCTGG
GAGACAGAGTCAGGCTGTTGCGCTCCACCTCAGCCCCAAGTTCCCCAGGCCCAGTGGGGTGGCCGGCGGGGCCA
CGCGGGACCGACTTTCCATTGATTTCAGGGGTCTGATGACACAGGCTGACTCATGGCCGGGTGACTGCCCCCTG
CCTTGCTCCCCGAGGCCTGCCGGTCTTCCCTCTCATGACTTGCGAGGGCCGTTGCCCCAGACTTCCTCCTTTCC
GTGTTTCTGAAGGGGAGGTCACAGCCTGAGCTGGCCTCCTATGCCTCATCATGTCCCAAACAGACACCTGGATG
TCTGGGTGACCTCACTTTAGGCAGCTGTAACAGCGGCAGGGTGTCCCAGGAGCCCTGATCCGGGGGTCCAGGGAA
TGGAGCTCAGGTCCCAGGCCAGCCCCGAAGTCGCCACGTGGCCTGGGGCAGGTCACTTTACCTCTGTGGACCTGT
TTTCTCTTTGTGAAGCTAGGGAGTTAGAGGCTGTACAAGCCCCCAGTGCCTGTGCGTTGCTTGGATTCCCTGAC
GTAAGGTGGATATTAAAAATCTGTAAATCAGGACAGGTGGTGCAAATGGCGCTGGGAGGTGTACACGGAGGTCTC
TGTAAGCAGACCCACCTCCCAGCGCCGGAAGCCCGTCTTGGGTCTCGCTGCTGGCTGCTCCCCCTGGTGGT
GGATCCTGGAATTTTCTCACGCAGGAGCCATTGCTCTCCTAGAGGGGGTCTCAGAACTGCGAGGCCAGTTCTT
GGAGGGACATGACTAATTTATCGATTTTATCAATTTTATCAGTTTTATTTATAAGCCTTATTTATGATGTA
TATTTAATGTTAATATTGTGCAAACCTTATTTAAACTTGCTGGTTTCTAAAAAAAAAAAAAAAAAAAA

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FIGURE 1823

MGVLLTQRTLLSLVLALLFPSMASMAAIGSCSKEYRVLLGQLQKQTDLMQDTSRLLDPYIRIQGLDVPKLEHCR
ERPGAFPSEETLRGLGRRGFLQTLNATLGCVLHRLADLEQRLPKAQDLERSGLNIEDLEKLQMARPNILGLRNNI
YCMAQLLDNSDTAEPTKAGRGASQFPPTPTASDAFQRKLEGCRFLHGYHRFMHSVGRVFSKWGESPNRSRRHSPH
QALRKGVRRTRPSRKGKRLMTRGQLPR

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FIGURE 1824A

CCCCGCCCCGCGGGACCGCAGGTAACGGGCCGCGGGCCCCGCGGGCCAGGAGGGGAACGGGGTCGGGCGGGCGA
GCAGCGGGCAGGGGAGCTCAGGGCTCGGCTCCGGGCTCTGCCGCCGATTGTTGGGGCCGCGAGGAAGAGCTGCCA
GCCGAGGGCCTGGGGCCGCGCACTCCTCCCGCCCTGTCTGCAGTTGGAAAACCTTTTCCCCAAGTTTGGGGCGGC
GGAGTTCCGGGGGAGAAGGGGCCGGGGGAGCCGCGGAGGAGGCGCCGGGCCGCGCGTGTAGGGCCCAGGCCGA
GGCCGGGACGCGGGTGGGGCGCAGGCCCGGGTCAGGGCCGACGCCGGCTGTGCGCCGTGCCGCCCGGGGCGCTG
CCCCCTCCCTCCCTGGGAGCTGCGTGGCTCCCCCTCCCCCCACCTGCTTCTGCTCAGCCTCCTGCCCGA
TATAACGCCCTCCCCGCGCCGGGCCCGGCTTCGCGCTTGCCCCGCCACGGCAGCCGCTGCCCTCCGCTCCCCGCG
CGCCCGCCCGGGCCCGGACCGAGGGTTGACAGCCCCCGGCCAGGGCGGCGCCAGGGCGGGACCGCGCTCCC
CTCTCCGTATCACTTCCCCCACTGGGGCAACTTCTCCCGAGGCGGGAGGCGCTGGTTCTCGGCTCCCTTTCT
CCCTACTTGGGTAAAGTTCTCCGCCCTGAATGACTTTTCTGAAGCGGACATTTTACTTAAATCGGGTAACTGTC
TCCAAAAGGGTCACTGCGCCTGAACAGTTTTCTTCTCGGAAGCCCCAGCACCCAGCCAGGTGCCCTGGGGCGTGC
AGGCGCCCTGGCCTCCCTCCACCGCGGCCGCTACCTCCTGCTCCTTCTCTGGTCCGGGCGGGCCGGCCTG
GGCTCCCACTCAGAGGGCAGCTGGTCCCTTCGCGGTCGCCAGGCCGAGGGCTGATGCCCCGCTCAGCTGAGG
GAAGGGGAAGTGGAGGGGAGAAGTGCCGGGCTGGGGCCAGGCGGCCAGGGCGCCGACGGCTCTACCCGGCCGG
TGTGTGTCCCCGAGGAGAGTGTGCTGGGAGACGATGTCGGACGATGGAGGCGCCCGGCACTCCAGGCAGC
TGCTGTGTCAGCTCAACAACAGCGCACCAAGGGCTTCTTGTGCGACGTGATCATCGTGGTGCAGAACGCCCTCT
TCCGCGCGCACAAGAACGTGCTGGCGGCCAGCAGCGCCTACCTCAAGTCCCTGGTGGTGCATGACAACCTGCTCA
ACCTGGACCATGACATGGTGGGCGGCCGCGGCTGTTCCGCTGGTGTGACTTCATCTACACGGCCGCTGGCTG
ACGGCGCAGAGGCGGCTGCGGCCGCGGCCGTGGCCCCGGGGCTGAGCCGAGCCTGGGCGCCGTGCTGGCCGCCG
CCAGCTACCTGCAGATCCCGACCTCGTGGCGCTGTGCAAGAAACGCTCAAGCGCCACGGCAAGTACTGCCACC
TGCGGGGCGCGCGCGGCCGCGCGGCTACGCGCCCTATGCTATGGCGACGAGCTGGGCGGGAGCGCGGCTC
CCCCAGCGAGCGCTGCGAAGAGCGTGGTGGGGACGCGGCCGTCTCGCCGGGGGGCCCCGCTCGGCTGGCGCC
GCCGCCGCGCTACCCTGGCAGCCTGGACGGGCCCGCGCGGGCGGCGACGGCGACGACTACAAGAGCAGCAGCGA
GGAGACCGGTAGCAGCGAGGACCCAGCACCGCTGGCGGCCACCTCGAGGGCTACCCATGCCCGCACCTGGCCT
ATGGCGAGCCCGAGAGCTTCGGTGACAACCTGTACGTGTGATTCCGTGCGGCAAGGGCTTCCCCAGCTCTGAGC
AGCTGAACGCGCACGTGGAGGCTCAGTGGAGGAGGAGGAAGCGCTGTACGGCAGGGCCGAGGCGGGCGAAGTGG
CCGCTGGGGCCCGCGCCTAGGGCCCCCTTTTGGAGGCGGCGGGGACAAGGTGCGCGGGGCTCCGGGTGGCCTGG
GAGAGCTGTGCGGCCCTACCCTGCGGCTCGTGCAGACAAGAGCTACAAGGACCCGGCCACGCTGCGGCAGCACG
AGAAGACGCACTGGCTGACCCGGCCCTACCCATGCACCATCTCGGGGAAGAAGTTCACGCAGCGTGGGACCATGA
CGCGCCACATGCGCAGCCACCTGGGCCTCAAGCCCTTCGCGTGCAGCGCTGCGGCATGCGGTTACGCGCCAGT
ACCGCCTCACCCGACGCACATGCGCATCCACCTCGCGGCGAGAAGCCCTACGAGTGCCAGGTGTGCGCGGCA
AGTTGCGACAGCAACGCAACCTCATCAGCCACATGAAGATGCACGCCGTGGGGGGCGGGCGGCGCGCCGGGGC
GCTGGCGGGCTTGGGGGGCTCCCCGGCGTCCCCGGCCCCGACGGCAAGGGCAAGCTCGACTTCCCCGAGGGCGT
CTTTGCTGTGGCTCGCTCAGGCCGAGCAGCTGAGCCTGAAGCAGCAGGACAAGGCGGCCGCGACCGAGCTGCTG
GCGCAGACCACGCACTTCTGACGACCCCAAGGTGGCGCTGGAGAGCCTTACCCGCTGGCCAAGTTCACGGCC
GAGCTGGGCCTCAGCCCCGACAAGGCGGCCGAGGTGCTGAGCCAGGGCGCTCACCTGGCGGCCGGGGCCGACGGC
GGACCATCGACCGTTTCTCTCCACCTAGAGCGCCCCCTCGCCAGCCCGCTCTGTGCTGCTGCGCGGCCCTGGCC
CGCACCCAGGGAGCGGCGGGGGCGGCGCAGGGCCCACTGTGCCCGGACAACCGCAGCGTGCACAGTGGC
GGCTCCACCTCTCGGCGGCCCTACCTGGCCTCACTGCTTCGTGCCCTAGCTCGGGGTGGGGGAGAACCCCGGG
ACGGGGTGGGATGGGGTAAGGGAATTTATATTTTGTATATCAGCTTTGACCAAGGAGACCCAGGCCCTCCC
GCCTCTTCTGTGGTTCGTGCGCCCCCTCCCCGGCTCCGCGCTGCTCTTAGAGGGGGAGGGGTGTCACTGTGCG
GGCACTCCTAGCCCTACCTCCGGCCCTTGCAGCACACCCATTCTACTGTGAATCTCCCCGCTGGGTGCGAGCG
TCGGGCAGAGTTGGGGAGTGGGAGGGGACTGAGCCGGCCGAGGCCCCGACCCCCGCTCCACCCACCCCGG
GACTGATAATGTGAAGTTCTCATTTTGCACAAGTGGCACTAGCCCAGGGCCAACCTTCTTCTCAGTACCA
AGGGCGGGGAGTTCTGGAGTCGGAAGGCGAAGAGCTACCACAGGTCTCCCACTCCCGGGTGGCTCCCTTCC
CTTCCCTGCGGCCCCGGACCATATTTATTGCATGCGCCCCGGCGCCCCCATCCCGAGCCAGGCTGGGTGGG
CTGGAACGCGGTCTCTTAGCTCCCTCCTCTCGTTGTATATTTCTACCTTGTACACAGCTCTTCCAGAGCCG
CTTCCATTTCTATACTCGAACCACAGCAATAAAGCAGTAACCAAGGACCCGACCCCGCTGCTCTCTCTG

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FIGURE 1824B

CCCTGCACAAGGACCTGGATGCTGCGCCCGCTGGGTGGAGGAGCCAGAAAGGGCCACCCTCACACAGGTGCAGAG
GCTTGGACCTGCCTCCCTCCCCAGTCCCAGAAACAGATCAGCAAGAGGTCAGGTATGTTTCATAACTAAAAATTT
ATTAAGGAAACAAAACCAGTGCTGCAAACGGGACAGAAAGGAGAGCTGGGTCTCCCTCCCGACCACCCAGTCATC
GGCCTTCCAGCTGGGGAGAGAATCTTAAAGGAGAGGCCGGGGACCCTGTACTCAAAGAGCCCAGTCTTCTGAGA
CTCTAGGGGACTCCTACCCCCAACTACTGGCCTTGGCTCCCCTACACGGTACCCCATCGCTTCTGGCATAGTCC
TGGGCCTCAGGGAGGGCAGAGCTGCGCACCCATCCTCCAGGCAGGCTGTGCAGTCAGGCCATGGGCTCTGGGGTA
TCCCCACTGGTCCCATTAAGATTTGCCCTGGCTCCACCGAAAACCCCGTCTTCCCCTAAG

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FIGURE 1825

MLDTMEAPGHSRQLLLQLNNQRTKGFLCDVIIIVQNALFRAHKNVLAASSAYLKSLVVHDNLLNLDHDMVSPAVF
RLVLDIFIYTGRLADGAEEAAAAVAPGAEP SLGAVLAAASYLQIPDLVALCKKRLKRHGKYCHLRGGGGGGGGYA
PYAMATSWAGSAAPPASAAKSVVGT RPSRPGGPRSAWRRRRATLAAWTGPARAATATTTTRAAARRPVAARTPAPP
GGHLEGYPCHLAYGEPESFGDNLYVCIPCGKGFPSSSEQLNHVEAHVEEEEALYGRAEAAEVAAGAAGLGPPFG
GGGDKVAGAPGGLGELLRPYRCGSCDKSYKDPATLRQHEKTHWLTRPYPTICGKKFTQRGTMRHMRSHLGLKP
FACDACGMRFT RQYRLTRTHMRIHPRGEKPYECQVCGGKFAQQRNLISHMKMHAVGGAAARPGRWRWGGSPASP
APTARASSTSPRASLLWLAHGRAAEPEAAGQGGRDRAAGADHALPARPQGGAGEPLPAGQVHGRAGPQPRQGGRG
AEPGRSPGGRARRRTIDRF SPT

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FIGURE 1826

TGAGCAGTGGGCTGCTTAGGAAGAGAAGGTCAGAGTTCGCGGGGGCAGAGGCATTCTTGCCGCTGGCCCAGTCAC
TATGTAGTGGAGGGGCAGACACCCTCCCGCAAATCTGGAAGGTTCTTAGTCTCGACTAGGGCAGTAGCCCCAGG
ACTCCTAGTCGCGGGCTTCAGGTCAGTCCGGCTGAACGGAGCTGCCGTCGCCATGTTGGCTGCTTGGTGGCGG
GGAGGCTGGTGCAAACAGCTGCACAGCAAGTGGCAGAGGATAAATTTGTTTTGACTTACCTGATTATGAAAGTA
TCAACCATGTTGTGGTTTTTATGCTGGGAACAATCCCATTTCTGAGGGAATGGGAGGATCTGTCTACTTTTCTT
ATCCTGATTCAAATGGAATGCCAGTATGGCAACTCCTAGGATTTGTCACGAATGGGAAGCCAAGTGCCATCTTCA
AAATTTCAAGTCTTAAATCTGGAGAAGGAAGCCAACATCCTTTTGGAGCCATGAATATTGTCCGAACCTCATCTG
TTGCTCAGATTGGAATTTTCAAGTGAATTATTAGACAGTATGGCTCAGCAGACTCCTGTAGGTAATGCTGCTGAT
CCTCAGTTGACTCATTCACTCAGTTCACACAAAAGATGTTGGACAATTTCTACAATTTTGCTTCATCATTGCTG
TCTCTCAGGGCCAGATGACACCAAGCCCATCTGAAATGTTTCATTCCGGCAAATGTGGTTCTGAAATGGTATGAAA
ACTTTCAAAGACGACTAGCACAGAACCCTCTCTTTTGAAAACATTAATTTGAATAAAATAATTTTAAATGGATTC
TGAAATTTGTCATGTTTTGAAGATAACTGACTCCATCTAAAAGTATGAGGTCAAAGGATCACGAAACCTAAGTTT
AAAAACTGCTTAGAGACTGAAGCTTAATTAATAATCTTTATTAATAATTAATAACATTGAAAAATGAAATATGT
TCATCATTAAAGACTTTTTTCCCTTAAGCTTAAATACCATTCAAAGGCAAGACATTTGTTTTGGCTATGATT
CATTTTTTTTACTTAAAAATAAACCTATACCAAACAGTAGTGTGCCAAGTAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1827

MFGCLVAGRLVQTAAQQVAEDKFVFDLPDYESINHVVFMLGTIPFPEGMGGSVYFSYPDSNGMPVWQLLGFTN
GKPSAIFKISGLKSGEGSQHPFGAMNIVRTPSVAQIGISVELLD SMAQQTPVGNAAVSSVDSFTQFTQKMLDNFY
NFASSFAVSQAQMTSPSEMFIPANVVLKWEYENFQRRLAQNPLFWKT

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FIGURE 1828

CGCTGTTGCCCTCCGCCACCTCCTCCGCCGCCGCCGCCCTCGGAGTTCCGCGCCCCACCATGCCCAACATCGTG
CTGTTTCAGCGGCAGCTCGCATCAGGACCTATCCAGCGCGTGGCCGACCGCCTGGGCCTGGAGCTGGGCAAGGTG
GTCACGAAGAAGTTCAGCAACCAGGAGACCAGCGTGGAGATTGGTGAAAGCGTGAGAGGGGAAGATGTCTACATC
ATCCAGAGCGGCTGCGGGGAAATTAACGACAACCTGATGGAACCTCATCATGATCAATGCCTGCAAGATTGCG
TCATCATCCAGAGTAAC TGCCGTGATCCCGTGTTCCTATACGCCCGACAAGATAAAAAGGACAAGAGTCGTGCC
CCAATTTCTGCAAACTTGTTGGCCAATATGCTGTCTGGTGGCTGGGGCGGATCACATCATCACCATGGACCTGCAT
GCTTCTCAGATACAGGGATTCTTTGATATTCTGTGGATAATTTGTATGCGGAGCCCGCAGTCCTGCACTGGATT
CGGGAAAACATTGCCGAGTGGAAGAACTGTATCATTGTTTACCTGACGAGGGGGAGCCAAAAGGGTTACATCA
ATTGCAGACAGGTTGAATGTGGAATTTGCTTTGATCCACAAAGAGAGGAAGAAGGCGAATGAAGTGGACCGGATG
GTCCTGGTGGGCGACGTGAAGGACCGTGTGGCCATCTCGTGGATGACATGGCTGACACTTGCGGCACCATCTGC
CATGCTGCGGACAAGCTGCTGTGCTGAGCTGGAGCCACCAAAGTGTATGCTATCCTTACCCATGGGATCTTCTCTGGA
CCAGCTATTTCCAGAATAAATAATGCCGCCCTTTGAGGCTGTTGTCTGTCACAAACACAATTCGCAAGAGGACAAA
ATGAAACACTGCACCAAGATTTCAGGTCAATTGACATTTCCATGATCTTGGCCGAAGCAATCCGAAGGACACACAAT
GGGGAATCCGTGTCTACCTGTTTCAGCCATGTCCCGCTATAAATCCAGAATGGGAAGTGTCCAGCAAGCCTACTC
TGACTTCTGACTTGTTTTGTTTTCTGGATTTTGTAGCTGTAGGTATTGAGCAATGATAGTTAATCACTGGCAAA
AGCATCAGATCTTTGTATATGCTAAGATTTATTGTTTTCCCTTCTAAAGCTCAAGATCATTCTTTCCAGTTTTT
GGGGAATGGTGGTGGTTATTTGGTCTTTAAGTGAACGTCTTAAATGAGAAACGTTTTTGTCATTTTGACTTTT
AACAGGTACAGGTGATCTCTCTCTTTGTTCTTTGAGTACTTTGAGGCGACAACCTTCAAGTATATAATTTCAATTG
TGGAAAGTCATAGTTTATATATTTTCGAGGTTGCCAAAGGTGACTTCACATTAAAGCCTTCTGTGTAAATATATACT
GATAATGCCTATGGACATTTGGGTAAAACCGTGTATAGAAATTAATTATCCTTTTACTTTGGAGTGAACCTTGGA
AATTTATAATTATAATACCATGGATTTTGAATTTTCTTTTTTTTTTTTTTTTTTGGATAACTCAGTTTCAGATA
AACCATCTTGGTTACTGTGCTTAATTTGGACCAAATTTTATTTAGCTTAATATGGACACTGACACATTTTGGGGG
GTATACATTAGACATATCAGAGCAGTGTATTTCTGGATCATTTTTTAAATGACCTCTTCTAAAACATAACTGTCA
CTTACCTGAAATGCTGCATCCIAAAATTCAAAATTATATTGAGCAATCGCCAAGGCCTAAAGCCAACTGACTTA
AAGGTAATCATTTTCAGCTAAGATTAAATTTAAAGCCTAAGAATGTATAGAGCTAGTTTTAAATAATGATCTCAG
ATTTTTAAAAAGGATATAGGAACCTGCATTGTCATTCTCTGAATTAAGAAGTATGTTTCTATCATTATTTAGC
CCCACCTTTGTATTTTAAAAATCCTTCAGAATACATTTATGAACCAATGCGACTGGACTTAGCCACACACAATGGA
AATTCAGACCTTGACTATTTGGTGTTCAGTTTCAAAAGGTGATGAAGACTGTCTTGGGAGCAGCTTAATCCCA
AAATTTGTACATTTCTTGTCTCTGCGTGGGAACTTAAGTGAGACCACCAAATACATTGGTCTGTCCAATT
CTACTGAATGGGGTGGACCTGGCATTATCTGGCCAAAACAGGAGCCAGAGAAATATGAATATACCAAAGTTG
TTTGTGTAGCCTCCAACCTTAAATTACATTAGTCAACTTATAGATACTCATATGATCACTTTTCTTTTGTAGATACT
ACATCAACTAGATTTCAGGAGTATATCATTGTCAGTGCTTGTATTGGTTTTAAATGTAAGATTTTAAAGATCCTCTA
ACACTGTACTAAAACATTTCAATAAAATCATTCTGACTGCGTTCAAAAAAAAAAAAA

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FIGURE 1829

MPNIVLFSGSSHQDLSQRVADRLGLELGKVVTKKFSNQETSVEIGESVRGEDVYIIQSGCGEINDNLMELLIMIN
ACKIASSSRVTAVIPCFPYARQDKKDKSRAPISAKLVANMLSVAGADHIITMDLHASQIQGFFDIPVDNLYAEP
VLQWIRENIAEWKNCIIVSPDAGGAKRVTSIADRLNVEFALIHKKERKKANEVDRMVLVGDKDRVAILVDDMADT
CGTICHAADKLLSAGATKVYAILTHGIFSGPAISRINNAAFEAVVVTNTIPQEDKMKHCTKIQVIDISMILAEAI
RRTHNGESVSYLFSHVPL

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FIGURE 1830

GCGCGGCCCATGGAGTCGGGGCTGCTGCGGCCGGCGCCGGTGAGCGAGGTTCATCGTCCTGCATTACAACCTACACC
GGCAAGCTCCGCGGTGCGCGCTACCAGCCGGGTGCCGGCCTGCGCGCCGACGCCGTGGTGTGCCTGGCGGTGTGC
GCCTTCATCGTGTAGAGAACTCTAGCCGTGTTGTTGGTGCTCGGACGCCACCCGCGCTTCCACGCTCCCATGTTT
CTGCTCCTGGGCAGCCTCACGTTGTCGGATCTGCTGGCAGGCGCCGCTACGCCGCCAACATCCTACTGTCTGGGG
CCGCTCACGCTGAACTGTCCCCGCGCTCTGGTTTCGCACGGGAGGGAGGCGTCTTCGTGGCACTCACTGCGTCC
GTGCTGAGCCTCCTGGCCATCGCGCTGGAGCGCAGCCTACCATGGCGCGCAGGGGGCCCGCGCCCGTCTCCAGT
CGGGGGCGCACGCTGGCGATGGCAGCCGCGCCTGGGGCGTGTGCTGCTCCTCGGGCTCCTGCCAGCGCTGGGC
TGGAATTGCCTGGGTGCGCTGGACGCTTGTCTCACTGTCTTGCCGCTCTACGCCAAGGCCCTACGTGCTCTTCTGC
GTGCTGCGCTTCTGTTGGCATCCTGGCCGCGATCTGTGCACTCTACGCGCGCATCTACTGCCAGGTACGCGCCAAC
GCGGGCGCCTGCCGGCAGGCGCCGGGACTGCGGGGACCACCTCGACCCGGGCGCGTCGCAAGCCGCGCTCGCTG
GCCTTGCTGCGCACGCTCAGCGTGGTGTCTCTGGCCTTTGTGGCATGTTGGGGCCCCCTCTTCTGCTGCTGTTG
CTCGACGTGGCGTGCCCGGCGCGCACCTGTCTGTACTCCTGCAGGCCGATCCCTTCTTGGGACTGGCCATGGCC
AACTCACTTCTGAACCCCATCATCTACACGCTCACCAACCGCGACCTGCGCCACGCGCTCCTGCGCCTGGTCTGC
TGCGGACGCCACTCCTGCGGCAGAGACCCGAGTGGCTCCAGCAGTCGGCGAGCGCGGCTGAGGCTTCCGGGGGC
CTGCGCCGCTGCCTGCCCCCGGGCCTTGATGGGAGCTTCAGCGGCTCGGAGCGCTCATGCCCCAGCGCGACGGG
CTGGACACCAGCGGCTCCACAGGCAGCCCCGGTGACCCACAGCCGCCGGACTCTGGTATCAGAACCGGCTGCA
GACTGACACCCCTCGGCCCACGACTGTCTTCCCAAGTTTTACAGACTTGTTCTTTTACATAAAGGAATTTGTAGG
AAATGCAGCCAAAGGTGCAGTCGGAAAAGATGCAGGGGAAATGTATTTATGCAGCGACACCCACAATGTGAACA
AACAGACAAAAATCTGTGCCCTCGTGGAATTGACGTTCTGCTTGGGAACACAGAAAAGAATCGGTGATGAAAT
AATGGAGATGATTCCAGTGACAAACGACAGAGATGGTGATGGTGGTCAGGGAAGACCTCTCTGCAGAGGTAGTGA
CTTGTGATGTGAGCTGAGACCTCTGTCTGGGAAGACCAAAAGAAAAGCATTTCAGGATGAGGGAATGGCATGCG
CAAAGGCCCTGAGGCTGAAATGTGCCATGTGTTCTAAGAAATGCAGCGATGCTGGTGTGCCTGGAGCAGGGACG
GAGGGGGAGAATGGGAGGAGACAAGGAGCTGAAGGAGTAGTTCGCGAAGGACCTTGTGGGTGATATAGAGGACTT
CGCTTTTGCTCTGAGTGAGGTGGGAGCCATAGAAGCTTCTAAGCAGAAGAGGGACTTGCCCTAATTCAGGTGATC
ACAGGTGTCTTGTTGCCCTCCATGGGAGGTTGAAAACCACAGAAGGTGAAGGGGGGCTGCACTGAGCCACAGGAAC
AATGATGGAGATTCCAGCTAAGCCCAGACCCCGTGGATTCTAGATAGATTTTAGAGGCAGCAGACAGAATTACTG
AGGAATTGAGTGTAAGAGTGGAATAAAGTTATCAAGGACAATGCCAAGGGTGGGGCACCCCAAATTTGACTTTG
GGAGACTCAGCCAAATCCTATCTGGTAATAAAATTTCTTTTTTATTTTTCTTTTCTTTCTTTCTTTCTTTCTTT
TTTTTTTTTTTTTGGATTGGGATCTTGTGCTCTGTACCCAGGCTGGAGTGCAATGGGCACAATTATAGCTCACT
GCAGCCTGGAACCTCGGGATCAAGCCTGGAGTTCCTGCTTCAGCCTCCCTAGTAGCTGGGACTACAGGCATGCA
CCACCATGCCCAGTTAATAAAATTTCTTCAAATGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1831

MESGLLRPAPVSEVIVLHNYTGKLRGARYQPGAGLRADAVVCLAVCAFIVLENLAVLLVLGRHPRFHAPMFLLL
GSLTLDLLAGAAAYAANILLSGPLTLKLSPALWFAREGGVFVALTASVLSLLAIALERSLTMARRGPAPVSSRGR
TLAMAAAAGVSLLLGLLPALGWNCLGRLDACSTVLPYAKAYVLCVLAFFVGILAAICALYARIYCQVRANARR
LPARPGTAGTTSTRARRKPRSLALLRTL SVVLLAFVACWGPFLLLLLDVACPARTCPVLLQADPFLGLAMANSI
LNPIIYTLNRDLRHALLRLVCCGRHSCGRDPSGSQQSASAAEASGGLRRCLPPGLDGSFSGSERSSPQRDGLDT
SGSTGSPGAPTAARTLVSEPAAD

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FIGURE 1832

AAAGTGTAGTGAACCTGGCTTCTCGCAGACTCGTAGAAAGTTAAAAAGGAAGCTACCATCTAAATGGTTTTATTA
TTATTCCAGATATTTTGGTATTGTTTTCTGTATCATGATAGTCTAAAAAACTAGTTTTACTTTTAATATTAATTG
GTATAATAATTAGTTGTTTTTTTTTCCCAAGTCACTGAAGATGTGTGCTTAGTTACATAAAGTACATTAATATTTG
TGTTTATAAAATAATACAATATTTATAGTATAATGTTTATATATGTGTTTAAATTGTGACAGCACTGCATCCACT
TGAGGCTCTTTTTTATAGCTACTAGGAGGTTTAGGCACCTGGAGTTAAATTTTAAATGAACCACATATTTTCATT
TTGTTAATGTAGTTTCCCATTTTATGCAAATAAAATATTTAATGGGCTCTCCACTCCTGTGCTCTTGTCCCTTA
CCGCTACCACCCTAAGAGATTATCATTGTTAACATTTGAGGACATGGTGTGTTTGTAACTGTGTTTTTCTTAA
TATGACAATGGCCCATATTTTAGCAGTAAACAAAAAGATACAGAAGATGAAAGCTTAGCCAAACACTGTAAATAG
AAATGGGAAGCTTTTTCATATCGGGGAACGGTGGCTTAATTGATTCTTGGGAATGGGGATCAACTAACCATAA
ACAATTTCAATTTAGGATTTTTCATCATGAGGGTATTTGGAGAGAAATATATCATCCTATAATGTGCACAGTAAG
TTTTTCCTAATTTGTTGCTTTGAGGAAAGACACAAAGCAAATAAACAGCCTTTCATAGATAAATAAGTATACAG
AGAGTGAAAGATATGGGTACAAGTATATAGAGACCTATCAAAAATACATTGCTTGTGTTATTAATTCTCATGTGT
GATTTTAGCATATTTAAAGGCTGTTTTGTGTTTTTAGAACCATAAGAATAAATGGGGATGTTACCTTTTCAGTTG
TTCCAAAGATTGCATGCATCATTACCAAAGCTTGAGTCTTTTTACTCCCCTGTCTTGTGAGATACCTACTACTT
GAGCATACTCTGGAATGAGAAAGTTTATCGATTAAACATGCTGCTTACGCAGATAGGATTAGCATTTCCTTAATTT
AGTATACCACGTGTTGTATCAGGCATAAAAGCCAGCTTTTTTTAGTCATACCCAATGTTTAAATTTGTTAAATG
CAGACTTCATGTTCTTTTGATCATTTAAATCATGACATGGATATTTTTAATTTTTATATTCTAGTAATTATCAAT
TGTCCTGGTCTGGCTGCTTAGAGTATCAGTTTGCTCAAAATTGCTTGAATCATTAAGCAAATACTAATTGTGAG
CATTGACCAGATCTTAAGTTAAAAAAGTCGACGC

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FIGURE 1833

KCSELGFSQTRRKLRKRLPSKWFYYYSRYFGIVFCIMIV

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FIGURE 1834

CTAGCTTGTGACCAGCGGGATGCATTGTAAGAAAGTTGTCTGTGGTTAGGAGTGCAGTCTGGGTCCATGGAACAA
ATTTAACTAATTGGCCCTCGCAATGATCAGTCCTAGGACCCTGGCCTTATTATTAGCATGGTGCTTTAACCAAT
TGTACATAATAATACCACTGATAGTCTACTAATGCATTTCCTAGATCCCAGTTTTTCTTGAATGATTAGGAATGG
TGGGGAGAGGGGAGGGGAGATATTCTACATGATACTTCTCCAATCTTCTAAAGATTATAAGAAAAATAAAAAAT
TGAAGTCACTGA

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FIGURE 1835

GACAGTGGAGGGCAGTGGAGAGGACCGCGCTGTCCTGCTGTACCAAGAGCTGGAGACACCATCTCCCACCGAGA
GTCATGGCCCCATTGGCCCTGCACCTCCTCGTCCTCGTCCCCATCCTCCTCAGCCTGGTGGCCTCCCAGGACTGG
AAGGCTGAACGCAGCCAAGACCCCTTCGAGAAATGCATGCAGGATCCTGACTATGAGCAGCTGCTCAAGGTGGTG
ACCTGGGGGCTCAATCGGACCCTGAAGCCCCAGAGGGTGATTGTGGTTGGCGCTGGTGTGGCCGGGCTGGTGGCC
GCCAAGGTGCTCAGCGATGCTGGACACAAGGTCACCATCCTGGAGGCAGATAACAGGATCGGGGGCCGCATCTTC
ACCTACCGGGACCAGAACACGGGCTGGATTGGGGAGCTGGGAGCCATGCGCATGCCAGCTCTCACAGGATCCTC
CACAAGCTCTGCCAGGGCCTGGGGCTCAACCTGACCAAGTTACCCAGTACGACAAGAACACGTGGACGGAGGTG
CACGAAGTGAAGCTGCGCAACTATGTGGTGGAGAAGGTGCCCCGAGAAGCTGGGCTACGCCTTGCGTCCCCAGGAA
AAGGGCCACTCGCCGAAGACATCTACCAGATGGCTCTCAACCAGGCCCTCAAAGACCTCAAGGCACTGGGCTGC
AGAAAGGCGATGAAGAAGTTTGAAAGGCACACGCTCTTGGAATATCTTCTCGGGAGGGGAACCTGAGCCGGCCG
GCCGTGCAGCTTCTGGGAGACGTGATGTCCGAGGATGGCTTCTTCTATCTCAGCTTCGCCGAGGCCCTCCGGGCC
CACAGCTGCCTCAGCGACAGACTCCAGTACAGCCGCATCGTGGGTGGCTGGGACCTGCTGCCGCGCGCTGCTG
AGCTCGCTGTCCGGGCTTGTGCTGTTGAACGCGCCCGTGGTGGCGATGACCCAGGGACCGCACGATGTGCACGTG
CAGATCGAGACCTCTCCCCGGCGCGGAATCTGAAGGTGCTGAAGGCCGACGTGGTGTGCTGACGGCGAGCGGA
CCGGCGGTGAAGCGCATCACCTTCTCGCCGCCGCTGCCCGCCACATGCAGGAGGCGCTGCGGAGGCTGCACTAC
GTGCCGGCCACCAAGGTGTTCTAAGCTTCCGCAAGGCCCTTCTGGCGCGAGGAGCACATTGAAGGCGGCCACTCA
AACACCGATCGCCCGTCCGCGCATGATTTTCTACCCGCCCGCGCGAGGGCGCGCTGCTGCTGGCCTCGTACACG
TGGTCCGACCGCGCGGCAGCGTTCCGCCGCTTGAGCCGGGAAGAGGCGTTGCGCTTGGCGCTCGACGACGTGGCG
GCATTGCACGGGCCTGTCTGCGCCAGCTCTGGGACGGCACCGGCGTCTCAAGCGTTGGGCGGAGGACCAGCAC
AGCCAGGGTGGCTTTGTGGTACAGCCCGCGCGCTCTGGCAAACCGAAAAGGATGACTGGACGGTCCCTTATGGC
CGCATCTACTTTGCCGGCGAGCACACCGCCTACCCGCACGGCTGGGTGGAGACGGCGGTCAAGTCGGCGCTGCGC
GCCGCCATCAAGATCAACAGCCGGAAGGGGCTGCATCGGACACGGCCAGCCCCGAGGGGCACGCATCTGACATG
GAGGGGCAGGGGCATGTGCATGGGTGGCCAGCAGCCCTCGCATGACCTGGCAAAGGAAGAAGGCAGCCACCCT
CCAGTCCAAGGCCAGTTATCTCTCCAAAACACGACCCACAGGACCTCGCATTAAGTATTTTCGGAAAAA

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FIGURE 1836

MAPLALHLLVLPILLSLVSQDWKAERSQDPFEKCMQDPDYEQLLKVVWGLNRTLKPQRVIVVGAGVAGLVAA
KVLSDAGHKVTILEADNRIGGRIFTYRDQNTGWIGELGAMRMPSSHRILHKLCQGLGLNLTKFTQYDKNTWTEVH
EVKLRNYVVEKVPEKLGALRPQEKGHSPEDIYQMALNQALKDLKALGCRKAMKKFERHTLLEYLLGEGNLSRPA
VQLLGDVMSEDGEFFYLSFAEALRAHSCLSDRLQYSRIVGGWDLLEPRALLSSLSGLVLLNAPVVAMTQGPHDVHVQ
IETSPPARNLKVLKADVLLTASGPAVKRITFSPPLPRHMQEALRRLHYVPATKVFLSFRFPFWREEHIEGGHSN
TDRPSRMIFYPPPREGALLLASYTWSDAFAAGLSREEALRLALDDVAALHGPVVRQLWDGTGVVWRWAEDQHS
QGGFVVQPPALWQTEKDDWTVPYGRIYFAGEHTAYPHGWVETAVKSALRAAIKINSRKGPAASDTASPEGHASDME
GQGHVHGVASSPSHDLAKEEGSHPPVQQLSLQNTTHTRTSH

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FIGURE 1837

ATACACATGCAGAAGCTGTGACACGTGCGGAAGCTGTGGTAAGTGCATCCTCCTTCAGTCTCAGTTCTGAAAATA
GATCATCATGGTGGCACCAAAGAGTCACACAGATGACTGGGCTCCTGGGCCCTTCTCCAGTAAGCCACAGAGGAG
TCAGCTGCAAATATTCTTCTGTTCTACAGACCTCTCTCCTCTTCTGCTCATGGGCCCACTCCTGGGAAACA
TCTCTCCGCTGCAIGGCCCGGAACCCCACTGTCCAGCAGATAGAGCCAATCCAGTACCCAGAGAGGATCTCAGC
CACCTGGGACTGTGGCAGCTACTGTCTTCTGTGCTCCCGCTTCTCCAGGGCTTCAGGGATGATGATCAGGAC
TAAGAGCCTCTGGAAGGACTCAGCCCCAACAGTGGTGTGAGGGATCCTAGGGGGTTCCGTGACTCTCCCCCTAA
ACATCTCAGTAGACACAGAGATTGAGAACGTCACTCTGGATTGGTCCCAAAATGCTCTTGCTTTCGCACGTCCCA
AAGAAAATGTAACCATTATGGTCAAAAGCTACCTGGGCCGACTAGACATCACCAAGTGGAGTTACTCCCTGTGCA
TCAGCAATCTGACTCTGAATGATGCAGGATCCTACAAAGCCCAGATAAACCAAGGAATTTGAAGTCACCACTG
AGGAGGAATTCACCTGTTCGTCTATGCACCATTTATTGAAAAGTTGTCCGTCCACGTCACTCGGGGTGACCACC
GCACACTCCTGGAGGGCAGCGCCTGGAGTCCATCATCAGCACCTGGCTGAGCCACGTGTGAGCGTGCAGGAGG
GCTAGGCCCTCGCCCCACCTGCCACTGGAGACCGCTCCGCCATCCCCACCTACCGCCGCGCAANAGAGCTGGA
AGGGTCCTGCCGATGGGACCCCTGCCAGGCCAGTGCCACTGCCCCCGAGGGCTGCTAGACGTGGGGCGTTAGGC
GTGTCCCAACCCACCCGCCCTCCCATGGGCACGTGCGGAACACCGGAGCCGCCAACTTGGAGACTTCCTGGTCT
GTGAAGAGCCGCTGACGCCCGCAGGAAACCGGGGCTGGGCCTTGTGTGCCAGTCGGGGTTTTGTGCTTGGTCGTT
TCTCCGCTTGGATTTGCTTATTTATTGCATTGCTGGTAGAGACTCCCAAGCCTGTCCACCCTGCAAAGACTCCTC
GGGCAGCATGCGGGTCCCGCACACTGCACCCATTTCTTGATGTCCCCTGCAGGCGCGGGAGGCCATCCGGGCCT
GCTGGCTGCGGCCCCCTCTCAGCCAGGCCTGGCTCAGCCCACTGCGTGGGAGGTCACCGGCCACTCCCCGAGGAG
CTGGGATCCCCGGGATGCAGGCCCACAGTGCAGGGGCTGCACCCATGATGCGGAGCTGGCCTCCAACCCTGCGGGC
CGCGCCAGGCACCAACTCAGTGTTTGTGAGTGTGTTTTTCCAAAGAAATGGTTCAAATTGCTGCTCAGATTTTT
AAATTTACTGTAGCTGCCAGTGACACGTGTGGACCCCATTTTATTTTTACACCAATTTGGTGAAAATGCTGCTT
TCCTCAGCCTCCCCACAATTAACTGCACATGGTCTCTAA

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FIGURE 1838

THAEAVTRAEAVVSASSFSLSENRRSSWWHQVRTQMTGLLGLSPVSHRGVSCKYSLLFYRPLSSSCSWAQLLGN
SPLHGPEPHCPADRANPVPQRGSQPPGTVAATVLLCSRFLQGFRDDDAGLRASGKDSAPTIVVSGILGGSVTLPLN
ISVDTEIENVIWIGPKNALAFARPKENVTIMVKSYLGRDLITKWSYSLCISNLTLDAGSYKAQINQRNFEVTTE
EEFTLFVYAPFIEKLSVHVIEGDHRTLLEGSGLESIISTLAEPVSVREG

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FIGURE 1839

TTTTTGAAGGCTTAAGCAATCGGGGACGAGCTTTATTGAGGCAATCACATCCACATTTTCAGTTGTTTGCAATGAT
TGGCAAACGGATGAGTTAAAAAAGCCTTCTGCTTCCACACTGTTCCGTCTACATTCAGAAAGCAGTAAAAATATA
TTCGTGCAATGAACACTTTCCACCTTAAGCGTATCATGACAGTTCACAAATTTGCCAACAGACAATGCAAAACAA
TATTTACAAGATAGACCCTTTGTAAGTTCCAAATTTAGATACTTGTGGTGTAATTCTAAAACTAACATCGCATGT
TTTTCCAGGT

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FIGURE 1840

GAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTT
CCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGTCCCACGAGAATATGTAAGAGCTTTAAATGCTACCAA
CTGGAACGAGTATTTGCAAAACCATTCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAG
CATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGG
AATTGTATCCGTACAATACAAGCACATGAAGGCTTTGTACGAGGAATATGTACTCGCTTTTGTGGGACTTCTTTT
TTCACTGTTGGTGTATGACAAAACGTGAAGCAGTGGAAATGGATGGGCCAGGCTATGGAGACGAGGAAGAGCCA
TTACATACAATATTAGGAAAGACAGTGTATACTGGGATTGATCATCACTGGAAAGAAGCTGTTTTGCCACATGT
GGACAGCAAGTAGACATTGGGATGAACAAAGAACTAATCCTATATGTTCAATGACCTGGGGATTGACAGTATA
AGTAGTGTTAAATTTAACCCAATTGAGACATTTCTCTTGGGAAGTTGTGCATCTGACAGGAATATAGTACTGTAC
GATATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGAGAACAAATACAATCTGTTGGAACCCATG
GAAGCTTTCATTTTTACAGCAGCAAATGAAGATTATAACTTATATACTTTTGATATGCGTGCCTGGACACTCCT
GTAATGGTCCATATGGATCATGTATCTGCAGTGCTTGATGTGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCT
GCTAGTTTCGATAAATCTATTGGAATCTTTCTGTAGACAAAAGTGAAGCAGGGAGGTATATCATAAAAGAGA
ATGCAACATGTTATCTGTGTAAAATGGACTTCTGACAGCAAGTATATTATGTGTGGATCTGATGAAATGAACATT
CGCCTGTGGAAGCTAATGCTTCTGAAAAATGGGTGTGCTTACATCACGAGAAAAAGCAGCCAAGGATTATAAC
CAGAAATTGAAGGAGAAATTCAGCATTATCCTCATATAAAACGTATAGCTCGTCATCGACATCTACCAAATCT
ATCTATAGCCAGATTCAGGAACAGCGCATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAAACAC
AGCAAGCCTGGATCTGTGCCACTTGTGTCAGAGAAGAAGAAACACGTAGTGGCAGTTGTAAAAATAATGGTATTC
CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTTGAGAACTCTACAAATAAAAGTGCTGGGACTAGATT
AATTGCAAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTTAGCTACCCTGAAAAATGATCCTTAA
AGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCATTCTTCTTTTATTGTAGAATACAGTATTTGCAAC
TCATTTTTTCTTGTTTTTATTACAGATATACTTACTTTCTTTGATCTATTATTGTAGACACTATACATTCAA
TTGACATTTAAGACCAAACATCTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTC
CTGTGATTCCACATAACATTTAGAATAATGATGTCAATTTTTTACAACGTG

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FIGURE 1841

MKVKMLSRNPDNYVRETKLDLQRVPRNYDPALHPFEVPREYVRALNATKLERVFAKPFLASLDGHRDGVNCLAKH
PEKLATVLSGACDGEVRIWNLTQRNCIRTIQAHEGFVRGICTRF CGTSFFT VGDDKTVKQWKMDGPGYGDEEEPL
HTILGKTVYTGIDHHWKEAVFATCGQQVDIWDEQRTNPICSM TWGFDSISSVKFNPIETFLLGSCASDRNIVLYD
MRQATPLKKVILDMRTNTICWNPMEAFIFTAANEDYNLYTFDMRALDTPVMVHMDHVS AVLDVDYSPTGKEFVSA
SFDKSIRIFPVDKSR SREVYHTKRMQHVICVKWTSDSKYIMCGSDEMNI RLWKANASEKLGVLTSREKAAKDYNQ
KLKEKFQHYPHIKRIARHRHLPKSIYSQIQEQRIMKEARRRKEVNRIKHSKPGSVPLVSEKKKHVVAVVK

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FIGURE 1843

MACLGFORHKAQLNLATRTWPCTLLFFLLFIPVFCKAMHVAQPAVVLAASSRGIA SFVCEYASPGKATEVRVTVLR
QADSQVTEVCAATYMMGNELTFLDDSICTGTSSGNQVNLTIQGLRAMDTGLYICKVELMYPPPPYYLGIGNGTQIY
VIDPEPCPDSDFLLWILAAVSSGLFFYSFLLTAVSLSKMLKKRSPLTTGVYVKMPPTPEPECEKQFQPYFIPIN

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FIGURE 1844AGTGAAATTGAAGTTTGTGTATATGAAAGTTATCTTAGACATATTTTAAATTCTCCAGTTTCTGCAAAATAATTAA

AATATACAGTAACTGGTCTCCTAAATCCTGAATTTAATGTATTAAATACTTATGTTCTTTATATTGGTGCCTTTT
TAAATGCATTGAGAGTGTGGTTAGCTGTGTCAGCTGTACAACACTTTTAAATATGCATTTTAAAAATCACTTA
AAATTGAGTACTATATAATTCATCTCTGCATTTTGTAGTCAAAATCTTAGAGCAATTTCTAATAGAGAAATTTTC
AGCTCAGCTGTTAAAGGAAAAGGAAACTTTGAACTAGACTTTACTACCTTTTGTAGTTTCATAGTATTTCTGAA
TATGATTACAAGATTATGCAGGTAAATATAGAGTGAACTTTACCTGTGAATTGAATTATAATTTGTGTTTTTG
TTTTGTTTTTAAAGGAAGAATAAGTTCTGTATCAAACAAGAATTTATTAGATAATTTTTTGGTCAATAAAATACAG
TATTCATTTGGATTTTCATCTCCAGACTAGTATTGTTCTAGTCTTGGAATCTGTATTTTCTAATCTGTTAGAAAA
TAGAGATTGAAAATTGATGGAATAATGTGAAAAAGCAGGTAATTAATTCCTTGAACAAAGCAAACTGAACAG
TCATATCACATTGCTATTCTCCAAAGCATAATCTCAAATGGTTTCATATCATGGTTGTGTATTACTTGCAATGGG
TGTGTTAGGATATGACAGCTTTTTTAAAAAATGAGCTGCTGGTTATACAAAGCAAAATGGCATATGACCAAGAAGC
TGTGATATGCTAGTGTCTTTTTATCATAGTGTATTACTAGGCCAAATAATGACACCTTGAATATTTTTACATT
TATGTCAGAAACCTTAACTTGGAAATTTCCATAAGGTTTTTATGTAATATCTATTTCTAGCTTTTTAGTTTTAT
CTTGCTGTACTGTAAGTTTGAGGATATTTTACCTGCCTCTTAGGAATAAGTTCATAATCTGTTTATGGGGC
TTTCTCCCATACACTGCATTTGTATATTTCTGTATAAAATATGTGTTGTGTATTAACCTTTATCCCATACAG
AGAGTGGTACATGAATGACTAGTTTTCTAAGATGTCCTTTTTATTGTGAATAAAATATAAAAGTTAAAGGCCCTC
TGCTAAGTCACATAAAGTACAGCATATAAGTTCATATAGGTACAAATAAATGAGTTGCAGTGGATTGGGCCTTC
AAATTACCTCAAGTGACAGATAGTAAGAAAAGCTTCTTGAGCAGGTGGAGGTCCTGAATCCCTACTATGCACT
TATCAAGATTTTACTTACTTTAATTTACTGGAAATTGATTTTTTAAAAAATGACTACACTGTAAACAGGGAAGGG
ATCTGGGTTTTTTTTGTTGTTTTATTCTGTTTTTTTTAAGTAGTCAAATTCTGAACTGTGATTTAAAAATTTT
TTACAGTCAAGCATTCTGATTTTGAACATAACTCCCTTCCCTTCTGTGTAACAAAGGTCCTCTGTTATCTCTT
AAATTTTGTACATCTCCCTCAGCCTCTTTCTTGTCCGTCCTCCCTCTGTCTATGGATGTTTACCTCT
CTGTTCTCCTAAAAGTTTGAAGATTAGGTCAACTCTTATTTCTAGTTCATTGGTAATTTAATCCTAATTTTTTTT
TCGTGATTTTTGTTGGTTGTATAATCTGCTGACGTATTTTTTACTCAAGTGTAGTTTTCTATTAAGAAAGAAAAG
TGGTTGGATTAAAAATAGTAAGCTATGTAACCCTCATGTTACTTTCACTTTCAAATATTGGGTACCTAAAACATT
ACTTCAGAGATTATGTAATCCTATTATAGTATGTTTGCTTTCCTTTATTGTTGGATTTTACATTCTGATTTGGCT
TTCTCCAAAAAATGTATATCATGAAAGACTAGACAGTTATTTGCAAGTGTGTAAGAGGTGTTAAAAATGTAAA
GCAAAGAGTCTTAACTTTCTCCTAATTGGGAGAAAAATGCTTTAACATTACTATAATAATATTCAGGTTTGGAG
GGGGTCTCCAGGCCCATATTTGCTGTTAATAGTTGGACCTTTTAGACCATGTGTTATTTGCAATCCAGAATGA
TTGCTTCTGCTATTAGTTAAAAAGATACTATTCTTTCTTCTGTACAAGTGAATACTCCCTTGAAGTCTTAA
AACTATGGTGATTTTTTTTTCTTTTCTGACCTATTCTTCCCTTAGCTAATGACAAAAAGAACTCATAAAAGTC
ATAGTATGTTAAAGGACACAACAAGCAAAGAGAAAAACACTCCACAATCAAAGATTACAGAATGTGAAACCAC
TAGTCTGATCTCATGGTATCTTTATTTAAGCTAAATTTCCATGGAAATTAGTAATCTTTTGCTTGAAAAATGTGT
CCTAAAGTTGAACTTTTTACAGATTGAATCTTCTTAGACCTCGCCCAATGCTCTAAATTAAGAACCTAATACTT
AATATTTTTATTTTACTTCTCCCCTTTTAGAAATAAACTTTTTAAATAAAAGCAAAGCACTTAGCTGAGTTTTAAA
CACTTACATATCACCTATTGGAGAAATTTTTTTTTTAAAAATATTGGAGCAGTCCGTGTTTTATACAAAATTTAAG
TAAGAGGTATTTTTCTTATACATATTTATATGTAGTGTGCTAATTTTCTTTTTTATACCTGTGTCCCTGTAGTA
AAACTGCTGTAATATAAATACATGTTTTGTTAAAGATAACATTTCTTTGGCATTCTTTTTAAAGGCAGTTACTG
CATTTCTGCATTTGTACAGTATGTGTCTTGGCCATTTTAGATATTCTTTCTTTTAAACAATACCAAAGGTAATTAGA
CTATTTTAAAGACTAATTGCTTGACAGTTTTCTAGGGTATTTTGTGTTTTAGAAGCAAAAAAGAAAAAAAATAG
GTCAAACCAGTAAACCTCATTTTTTTTTCAAACATAAATTTGGGGAAATAAAACTATTGTTTANNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNAAGTTAAATTTCCATACCTTGTATGTCAGGTTTGCTAAGTGTAAT
GTAGTTTTTTTTTAAAGGCTCAAATACCATACCTCAGAAAAATGAGGTTTACTATGGAAATACTGAAACAGTCTTTGC
AGCTGTGTGACAAGTCACTCTACTACATACTGATTTGGAGACCTCCGCTAAATAGTTTTATCACTGCAGACTAAA
ATGTGGGACTTGTATCTTCTTTGTTTTTAAATGCACACATACATGTTCTGTGCATGTATGTGGTTACTGTGTAT
ATGTGTATGAGTGTGTATATGCATGTGTGTGAGTGTGTGTCTGTATGTGTGTACAATAAAGAAGCTGCAGAACT
TTGTAATACTTTGTGAAAAGGATTATATTATAAAGGTTTGTACTGTCTGAGTGCACAGCTACTGGAATAAATTTA
GGGAATCTCAGGAACAAGCATATAATTTGTCCAAGATTTATTTCTTCTCAGAAGTGAAGTGCAGTTTTTAATTC

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FIGURE 1844B

TGTATATTATTTAATATTTTACCAATAAAATAAACTTCTGACATACAGAAGTCCTAGGTCTTTACTCTTAAGTTT
GACCTTCTACAGAGTCCTAGAGCATGGAGACAATGCAGCCAGTTCTTTGTTTATACTAACAAGGTTTGGTCCAGT
TCCTAATAAATTCTTAATTTGTATCTGAGATGTCAGCTTGGCCTTTACTGTCTATATTTGTATGAACATTTTGAT
CAC

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FIGURE 1845

VKLKFVYMKVILDIFLILQFLQNN

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FIGURE 1846

GAGCTATAAGACAACAGGACTGAACAGGGAGCCAACTGTTTCTTTGAACAGTAAATCAGGAACACCAATGGACCA
AAATGAACACAGTCACTGGGGACCACATGCAAAGGGCCAAATGTGCCAGCAGATCTGAGCTGAGAATCATCCTGGT
GGGCAAAACAGGAACTGGCAAAAGTGCTGCAGGGAACAGCATCCTCAGGAAGCAAGCATTGGAATCGAAGCTGGG
TTCCCAGACCTTGACTAAGACTTGACAGCAAAAGTCAGGGAAGCTGGGGAAATAGAGAGATTGTCATTATTGACAC
ACCAGATATGTTTTCTTGAAGGACCCTGTGAAGCTCTGTACAAAGAGGTGCAGAGGTGCTACTTGCTCTCTGC
ACCAGGACCCCATGTGCTGCTCCTGGTGACTCAGCTGGGCCGCTATACCTCACAGGACCAGCAGGCTGCACAGAG
GGTGAAGGAGATCTTTGGAGAGGATGCCATGGGACACACAATTGTCTCTTTACCCACAAGGAAGACCTCAATGG
TGGCTCCCTGATGGATTACATGCACGACTCAGATAACAAAGCCCTAAGCAAGCTGGTGGCAGCATGTGGTGGGCG
AATCTGTGCCTTTAATAACCGTGCTGAAGGGAGCAATCAGGATGACCAAGTGAAGGAATAATGGACTGTATTGA
GGATCTGTTGATGGAGAAAAATGGTGATCACTATACCAATGGGTTGTACAGCCTAATACAGAGGTCTAAATGTGG
ACCTGTGGGATCAGATGAAAGAGTAAAGGAATTCAAACAGAGCCTTATAAAGTACATGGAACTCAAAGAAGTTA
CACAGCCTTGGCTGAAGCAAACCTGCCTAAAAGGAGCCTTAATCAAAACACAACCTGTGTGTTTTATTTTGTATTCA
GTTGTTTTCTCAGATTGATAATTCTGTGGCTTTGCATACTGCACAGCATGTGCAATTTGTTTTGTTGCTTACTCTT
TAGTATGTGCAATTTATTCTGCAGTTTGCTGTTTATTATACCCAAAAAGTTAATGATATTTTGGAGAACAGTTAT
TAGACTAGAACGCAAGACTCCTAGGTTATAGTTACAGATCCCAGTTATTATTTACTCACTATCATTTAGTGGGTG
AATCACAGTAATTTCCCTGTAAAATGTGGTACCTGAAGTCATATTTGAGATTCTATGAAATGTTTAAATCTTAAC
ATCACTCCAATTATTAATGAACCAAATCATACGATAAGTTACTGTTTGCATTGAAATATAATATCAAAGCCTTTT
GAAATCTGTAAACATAAAATTCCTCTCATTTTCAAATAAAAAAAAAAAAAAAAAA

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FIGURE 1847

SYKTTGLNREPTVSLNSKSGTPMDQNEHSHWGPHAKGQCASRSELRIILVGKTGTGKSAAGNSILRKQAFESKLG
SQTILKTCSKSQGSWGNREIVIIDTPDMFSWKDHCEALYKEVQRCYLLSAPGPHVLLLVTQLGRYTSQDQQAQR
VKEIFGEDAMGHTIVLFTHKEDLNGGSLMDYMHDSDNKALSCLVAACGGRICAFNNRAEGSNQDDQVKELMDCIE
DLLMEKNGDHYTNGLYSLIQRSKCGPVGSDERVKEFKQSLIKYMETQRSYALAEANCLKGALIKTQLCVLFCIQ
LFLRLIILWLCILHSMCNLFCCLLFSCNLFCSLLFIIPKKLMIFLRTVIRLERKTPRL

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FIGURE 1848A

CCCAATGTTTTCACTTAATAACTATGACAACTTAAAGAATGTCACCTAAGTTAGAAAATAAGCAGGCTAAGAAG
TGATTCTAATTAGGACCCCACTCAGTTTGCTAGTCATGCTGCCTGACAGAACATAAGCTTTTGTAAGTATTT
AGACTGATAACACATGCAGTATGAAAACATTATAGACTGCAGTTAGAAGACTAATTTTTTAAAGCACTCAAAAC
ATAGAATAAGATTTAGAATATATGTCCATTTATAATGAAAATAATTTATGTTTCATAATGTGAACATGTAAGATAA
GTAAATAAAGCATTACTTGTTTTATAATATCAGGAAGAGAGAAGGAAACATTAGTTTATAACATGTGCTATTTTA
ATATCTGTATTTTGAACATTTAAATACTCTGATGGTAAGGTTGCCAAAGTAATTTTGAATTCATAAAAAATTGTT
TATACCACAATAATGTGGGATATGTTTACAGGCTCTTTTATTTTGTGGTAGTTACTTTATAGTTCAGATGAATTT
GCATTTCACTCATTATAGTAAATAAAGTATATTAATATTTGTTGGAATAAAAAATCTCAATGTAATAGGACATA
GATAAATTATGCAACAGCCTGCTTTGATGAAAGCTGGTGCATTATGTGAGCTGCCACAGTTAATACTTTGTATTA
ACATTGCTTACTTCCCCCATTTGCTTCACCTATCTGACTACAATTGCTGGAATCATTCTTTTTGTGGTGCTTCCT
CCAAGTGAAATAACTATGTTATTAACCTACTGGATTAAATTTTATCAAATATCAGACTTACTGATCTCTTGGCA
GAGATTTATTGGTGTCTCAGTGTGATCACAATACAAGTTGTAGCAACCATTTTATAAACTCTTAGAGAATTATG
TAGATAAAATGGAAATTACATAATCCTAAACATTTTGTAGGGCTAATTGATAATAATTTAGCAATTTTATTAA
GAACCCAGTAAATTAATCCCTAATTTGTACGTTTTTGTTCAACTTACCGTGTCTGCAACCATATATAGACTTC
ATTGATACTCAGCAATTACTACAGTGTGTCTTACAATGTTTAAAAAACAAACAGCAATCTCTGTTTCTGCCAGA
AGTTAGATATTTTTTATAGTCTGTATGAATTTGTGTGTAGTAGACACCACATAGTTATTTCTGTTTGCATATAA
ATTTGCTGCTATTTATTTGTATGTTTTCTACTGTAGTATGCTATTGATTTCTGAAGTTATAATCATAATTTTTA
TTTTAGTAATCCAAGCTAAATGGGCAACCAGAAGTAATATCTGCTAGGGTGAATCCATCAGCATTGGTTCAGTG
CATATACATAAGTAAACCAGTTTAAAAAATTTTACTAAGCAAAAGGTAGTAGCAATATTGCTAGTTAAAGATTA
CCATTTTAGGGGAAAGTTCAAAGGTTTAACTTCTGAAACCTTTTAACTTTTCACTGCAAGAATGAAAATGTTT
GAAAGCCTTGTTAAGCTCATAAAAGTTTCATTTAAACACTGTAGAGTTTCTACCTTTGTGTGTAAAGGATATA
GAAAATATTTTCTATGGACAGAAGGTTGAACTGTTAACTTCTTTAATTTTCAATTGTTTAAAGGAGATAAAATGT
TATTTGTGTGTCTTTTCATGCTGTAAAGAAAATGAATGTATCTTTCAAATGTCATTAGAATTATGGCTTGATTCTA
AGGATACTCTATTTGTTTTAAAGTCTACACGGGATTGAAAAGAAAGGGAAGAGTATTACACTTCATTGTACAAAA
TGTAATTTTAGAAGAAAACTAATTTTCATTATAACAAGAGCAATCATTGAAGCATTTCAGATATAATGTACA
TTCTTTTTTCAATTTGCTTTGCCTCTAGAATAGAACTTTTCAGAAAATTTGCACATACTGTTTGAAGTATAAAA
TAATTGAATCTAGACTTTTGGAGTGTGGAAGGGTGTGTGTGTGAAGGTAATAAATGTGTTGCTGCATGTGTT
TACCATAGAGAACGTTGCCAGGCTTTGTCAAATGAGGACATTGTGTGAGGGTGTGACTTTTGTGAAGCCAGAAA
ACTGTGCCCTAAGATTTCATTACAGTGAGTATGTGCAGAGGCCCTGACCCAGTAAATGCTTTTTTGCCTTTTTATTC
CCAATGCTTGGACAGTTGAGACAACCTTGGCCCAACTCTGAATGTAGCAGTGATGTCTTATATGCTTACGAGTT
TATATTAATTCAGCTGAACAAGAACTACATCTTAAACCACCTTTGTAGGTATGATTAATACGTGCAACAGCTGCT
TTAAAAGGTGGTATTTATTATTCATCACTCATGAACTTGACTCAGTGAGGACTTCATTATTTTTATTCTCTTT
CCACGTCTCCAACCTTTTTAAAAATCACTAATTTAACTCTTTGTTAAGTACTCAAGTACAAAGTGATCTCTCTTT
CATGAACTTTGCTATAACTGTTGAAAGGATTGGTGTGAGGCTCTCTCAACCCTGGGAGTTTCCAAAATTTAGCAA
ATATTACTTGTGATAAGCTTAAATGCCACATCGCTAAGTACAATTATTACCAGGAATCCGTCAAGGGGGAGATAG
CCCCGCTCACACCCTTAGACCCAAACAGGTGCTGGTTTCATGCTTCTCCACAAATGGCAGTTGGTACTTCCCC
ACTGTCTACAGTTGAGCTCATTTTAACATATATTCAAAGAAGCTTTTTAGTTTCTACTCCTGAATTGTAGTGT
TCAAGTTATTTGCCTTCTCTGGGTAAGAAAATTTTAAACCAAGCTGGGATTCTCTGGCACCTGTCTTTCCCATC
TTTTCAATGAGTTGGCAAGATTAGGTCAAATTTCAATGCTAAATTTGATTTTTTGAATTTTAAATAGTTGCACCTT
ATTTTCATGCTGACCACCACTTAATTTATACATTTTAAATAAAATTTATCCTAGAAGTGTTGTAAACGTGGGAAA
ATTTTAATTAGTGTTGGAGGTCATTAGATTGGACCCAGGTTTAAATATAATGATCTCTTCACAGCTTATTTGATG
TTTAAGAGCAACTTGTGTGATCTTAGCTTTGCAGGTTTTCTGTAATTTATGTAGCACAATAAAGGATAACCAGTT
GACTGTGTTACTGGACTCTGAGTTCTCACAGCTAGTTTCATCTAAGCTTGGTTTATTATCATTCTGCTTTGGAT
TTTTTTGTGCATCACATGAATACTTAGAAATCCATTTGTTTTTCACTGTAGTACCTAGGGTGAAGTAGATGCTGCA
CAAGTAAGTTTAAAGGGAATAAAGTCCCGACCTTTATATACATGTTGAGGGGCACGATTTAAGAGACTGAAACA
GTTTACATTAACTGTTTTTATTTTCTGCCAGTAGACTCTATCTGCTTAAAAAATAAATTTGTTCAACCCAGT
GTTCTCCAGCATCAGGACATTACAGTTGTAATCTATGTTGTAATCTTTTCAAATAAGAAAAGCTACTCCTTATTC
TCTACAGTGTAGGCTTAATTTTAGAACCGATAATTTACTATATCTGCATTATTGATTTTTTAAGTAGTAGTTTT

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FIGURE 1848B

AAAAATAATTATTTCTATGTGGAGGGTGTTTTAATTTGGGATTTTTTTTTTCTTGTAACAGGTGCTATTTGTAAA
TATGAAGGGGAAAAGTCACTTAGTTAAAAGTCTAGCTTATGTCATAATTAAGATACAATTATTCATTTTCATGTTT
GATTCTATTAACTAGTGGCAAAACAGAATTGGTCCCTTAGTTTTTTAGATTACCTTTCCCCCTATATCACAAAA
ATACTCTTTCCATATGATCTCATAATTGAGGCAAAGAAGCTAAGGGTTTATTTAAAATGTGTATAAGCTTGAAT
TTGGTCAACACTGCATAATTTGAAATCACICTGCATTTGTCAGCTGAGCTTACTGTATGCTTGAAAGGCCTTG
TGTTTGCTTAATTTTAGTGAAAAAATTAGAATTTCTGCCATTTCATGTACAAAAAATTACAACACTACAGCAAACA
AGATAAAAAATGCTGGTTTGCATTAACTGTTTTAGTCTTAAGAGCAATTTATATTATGTGAAATGCTGTTACAC
ATATTTTGTGGCCATATTTCAATTTGAGAAACAGTTGTTTCAGGTACAAACATGAAAAACAACCTCTAGCTATGAC
TCTTAATGTTCAATTGCAAAATAAAGATGTGCTTTAGTAATCT

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FIGURE 1849

MFNCKIKMCFSN

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FIGURE 1850

GGCACGAGGGGCAAGCGGAACGCGGCAGCGGGCTGGGCCTGTGCGGCGGCCCGCGGAGCGCTTTGGAAGGCGCA
CGGGGCGAAGATGGCGGCGGAGCGACAGGAGGCGCTGAGGGAGTTTCGTGGCGGTGACGGGCGCCGAGGAGGACCG
GGCCCGCTTCTTTCTCGAGTCGGCCGGCTGGGACTTGCGAGATCGCGCTAGCGAGCTTTTATGAGGACGGAGGGGA
TGAAGACATTGTGACCATTTCGCAGGCAACCCCCAGTTCAGTGTCCAGAGGCACAGCCCCAGTGATAATAGAGT
GACATCCTTCAGAGACCTCATTTCATGACCAAGATGAAGATGAGGAGGAAGAGGAAGGCCAGAGGTTTTATGCTGG
GGGCTCAGAGAGAAGTGGACAGCAGATTGTTGGCCCTCCCAGGAAGAAAAGTCCCAACGAGCTGGTGGATGATCT
CTTTAAAGGTGCCAAAGAGCATGGAGCTGTAGCTGTGGAGCGAGTGACCAAGAGCCCTGGAGAGACCAGTAAACC
GAGACCATTTCAGGAGGTGGCTACCGCCTTGGGGCAGCACCAGAGGAAGAGTCTGCCTATGTGGCAGGAGAAAA
GAGGCAGCATTCCAGCCAAGATGTTTCATGTAGTATTGAACTCTGGAAGAGTGGATTTCAGCCTGGATAATGGAGA
ACTCAGAAGCTACCAAGACCCATCCAATGCCAGTTCCTGGAGTCTATCCGCAGAGGGGAGGTGCCAGCAGAGCT
TCGGAGGCTAGCTCACGGTGGACAGGTGAACTTGATATGGAGGACCATCGGGACGAGGACTTTGTGAAGCCCAA
AGGAGCCTTCAAAGCCTTCACTGGCGAGGGTCAGAACTGGGCAGCACTGCCCCCAGGTGTTGAGTACCAGCTC
TCCAGCCCAACAGGCAGAAAAATGAAGCCAAAGCCAGCTCTTCCATCTTAATCGACGAATCAGAGCCTACCACAAA
CATCCAAATTTCGGCTTGCAGACGGCGGGAGGCTGGTGCAGAAATTTAACCACAGCCACAGGATCAGCGACATCCG
ACTCTTCATCGTGGATGCCCGGCCAGCCATGGCTGCCACCAGCTTTATCCTCATGACTACTTTCCCGAACAAAGA
GCTGGCTGATGAGAGCCAGACCCTGAAGGAAGCCAACTGCTCAATGCTGTCATCGTGCAGCGGTTAACATAACC
GCCCAGCCAGCTGCCCTGGCCTCCCTCCTGTGTTTCCCATGGCCAGTGGCCATGCCCCATGGGGATCGCCCCCTCCT
GCCCCCTTGTGCACACCCAGCAGTCCAGTGCAACGTCTCCTCCATAGCTCTGGGTCTTTAGATCTTGGTTGGACG
TTTGTTTTCTCCTTAGTTGCATTTCTGGGTTTTTGTGATGATCAATGGACTTTAATGAAAAAAAAAATAAAAA
CAACCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1851

MAEERQDALREFVAVTGAEEDRARFFLESAGWDLQIALASFYEDGGDEDIVTISQATPSSVSRGTAPSDNRVTSF
RDLIHDQDEEEEEEGQRFYAGGSERSGQQIVGPPRKSPNELVDDLFGAKEHGAVAVERTKSPGETSKPRPF
AGGGYRLGAAPEEESAYVAGERRRHSGQDVHVVLKLWKTGFSLDNGDLRSYQDPSNAQFLESIRRGVPAELRRL
AHGGQVNLDMEDHRDEDFVKPKGAFKAFTGEGQKLGSTAPQVLNTSSPAQQAENEAKASSILINEAEPTTNIQI
RLADGGRLVQKFNHSHRISDIRLFIVDARPAMAATSFVLMTTFPNKELADENQTLKEANLLNAVIVQRLT

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FIGURE 1852

GGCACGAGGGCTGGGCGACGGCGCCGCCATGTACCTGGGCGAGGTGTGCACGGCGAACGGCGAGCGCTGGGAGCT
GCAGCTCAAGGGCGCCGGGCCCCACGCCCTTCTCCAGACAGGCCGACGGTCGCAAGGTCCTACGGTCAAGCATCCG
GGAGTTTCTATGCAGCGAAGCCATGTTCCACCTGGGAGTCCCCACCACACGGGCCGGCGCCTGCGTCACGTCCGA
GTCCACGGTGGTGCAGCGACGTGTTCTATGATGGTAATCCCAAATATGAACAATGCACGGTTGTGTTGCGTGTAGC
TTCCACTTTTCATAAGGTTTGGATCCTTTGAGATTTTTAAGTCTGCAGATGAGCACACAGGGCGTGCAGGCCCCAG
CGTGGGGAGGAACGACATTTCGAGTGCAGCTGCTCGACTATGTCATCAGCTCCTTTTACCCCGAGATCCAGGCTGC
TCATGCCAGCGACAGCGTGCAGAGAAATGCTGCCTTCTTCCGGGAGGTGACGCGGCGCACGGCGCGGATGGTGGC
CGAGTGGCAGTGTGTGGGCTTCTGCCACGGCGTGTCAACACCGACAACATGAGCATCCTGGGGCTCACCATCGA
CTACGGGCCCTTTGGCTTCTGGACAGGTACGACCCCGACACGTGTGCAATGCCTCCGACAACACCGGCCGCTA
CGCGTACAGCAAGCAGCCCGAGGTGTGCAGGTGGAACCTGCGGAAGCTGGCCGAGGCCCTGCAGCCGGAAGTGC
CCTGGAGCTGGGGGAGGCCATCCTGGCCGAGGAGTTTGACGCCGAGTTCCAAAGGCACTACCTGCAGAAGATGCG
CAGGAAGCTGGGCCTCGTGCAGGTGGAGCTGGAGGAAGACGGGGCGCTGGTGTCCAAGCTCCTGGAGACCATGCA
TCTGACCGGTGCCGACTTCACAAACACCTTCTACTTGCTGAGCTCCTTCCAGTGGAGCTAGAGTCGCCAGGCCT
GGCGGAATTCTGGCCAGGCTGATGGAGCAGTGTGCCTCCCTGGAGGAGCTGAGGCTGGCCTTCCGGCCCCAGAT
GGATCCCCGGCAGCTATCCATGATGCTGATGCTGGCGCAGTCAAACCCGAGCTGTTTCGCGCTTATGGGCACCCG
GGCAGGCATCGCCAGGGAGCTGGAGCGTGTGGAGCAGCAGTCTCGGCTGGAGCAGCTGAGTGCGGCAGAGCTGCA
GAGCAGGAACCAGGGCCACTGGGCTGACTGGCTACAGGCGTACAGAGCCCGGCTGGACAAGGACCTGGAAGGCGC
TGGGGACGCTGCCGCCCTGGCAGGCTGAGCACGTGCGCGTGATGCACGCCAACAACCCGAAGTACGTGCTGAGGAA
CTACATCGCGCAGAATGCCATCGAGGCTGCCGAGCGCGGGGACTTCTCAGAGGTGCGGCGGGTGTGAACTACT
GGAGACCCCTTACCACTGCGAGGCGGGGGCCGCCACAGACGCCGAGGCCACGGAAGCCGACGGGGCGGACGGCAG
GCAGCGCTCCTACAGCAGTAAGCCCCCGCTCTGGGCAGCAGAACTGTGCGTGACATGATCTTCGTAACGGCCTCG
GCACGCTCCACACCCCTGGAGTCTCCCGAGGCCCCCATGTGCTGCTGAGTGGCCAAGATGATGCCAGGCTGCCCT
ATACACTGGGGGATTCTGCCCTGGCCCATGCACACCCGTCTTTCCATGATGGCAGAGACATCCAGTCAGGACCTG
ACCCGTCTCTGTCTGAGGCCGGCTCAGCAGTGCAGCCTGGTCCCTGGGGGCTGGACCCAGGCTCCTAAATAAACC
AGCAACTCCCTCGAAA

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FIGURE 1853A

TCGTGTTTCGGTGAGTGTGGCGGAGATGGAGAGCCGGGATCCCGCCAGCCGATGTCGCCTGGAGAAGCGACGCA
GAGTGGCGCCCCGGCTGCCGACCGCTATGGCCTATTGAAGCACAGTCGCGAGTTCTTGGACTTCTTCTGGGACAT
TGCGAAGCCTGAGCAGGAGACGCGACTTGCGGCCACGGAGAAGCTGCTGGAGTATCTGCGTGGCAGGCCGAAGGG
GTCCGAGATGAAATATGCCCTGAAGCGTCTAATCACGGGACTCGGGGTGCGGCGAGAAACAGCCCCGGCCCTGCTA
CAGTTTGGCCCTGGCACAGCTGTTACAGTCTTTTGAAGACCTCCCCTTGTGCAGCATCCTGCAGCAGATACAAGA
AAAAATATGACCTGCATCAGGTGAAGAAGGCAATGCTGAGACCTGCTCTCTTTGCAAACCTGTTTGGAGTGCTCGC
CCTCTTTTTCAGTCAGGTGCGGCTGGTGAAGGACCAGGAGGCACTGATGAAGTCGGTGAAGCTGCTGCAGGCCCTGGC
CCAGTACCAAAACCACTTGCAGGAGCAGCCCCGGAAGGCCCTGGTGGACATCCTCTCCGAGGTCTCGAAGGCCAC
ATTGCAGGAGATCCTGCCGGAGGTCTCAAAGCCGACTTGAATATAATACTCAGCTCCCCTGAACAGCTAGAGCT
CTTCTCTCGTGGCCAGCAGAAGGTGCCCTCCAAGCTCAAGAAGCTGGTGGGATCCGTGAACCTATTCTCAGATGA
GAATGTCCCCAGGCTGGTGAATGTGCTGAAGATGGCCGCTCTCTGTGAAGAAGGACCGCAAGCTGCCCCGCCAT
TGCTCTGGACCTGCTCCGCTGGCGCTCAAGGAAGACAAGTTCCACGGTTCTGGAAGGAGGTGGTGAACAAGG
GCTGCTGAAGATGCAGTTCTGGCCAGCCAGCTACCTGTGTTTCCACCTGCTGGGCGCGGCCCTGCCCTGCTGAC
CAAGGAGCAGCTGCACCTGGTGTATGCAGGGAGACGTGATCCGCCATTACGGGGAGCAGCTGTGCACTGCTAAGCT
CCCCAAGCAGTTCAAGTTTGGCCAGAGATGGACGATTACGTGGGCACCTTCTAGAGGGGTGCCAGGATGACCC
TGAGCGGCAGCTGGCCGTGCTAGTGGCCTTCTCATCTGTACCAACCAAGGCCTCCCTGTACGCCTACTTTCTG
GCGGGTCGTGCGGTTCTGAGCCCTCCGGCCCTGCAGGGCTATGTGGCCTGGCTGCGGGCCATGTTTCTCCAGCC
AGACCTGGACTCCTTGGTTGACTTCAGCACCAACAACCAGAAGAAAGCCAGGATTCATCGCTCCACATGCCTGA
GCGAGCTGTGTTCCGGCTGAGGAAATGGATCATCTTTCGATTGGTGAAGATTGTGGACAGCCTGCACCTGGAGAT
GGAGGAGGCCCTTGAAGTGCAGAGGTGGCCAGGTTTTGTTTGTTCACCTCGTTCTTGTACAAAGAAGCCACATC
CCAGATCCCTGAGACAAAGCACCCGTTCTCCTTCCCTTTGGAAAACAGGCCCGAGAGGCTGTACAGAGTGCCTT
CTTCAGTCTGTTGCAGACCTCAGCACGCAAGTTCAAGCAGGCACCGGGCCAGACCCAGGGTGGGCAGCCCTGGAC
CTACCACCTGGTGAATTCGCAGACCTCCTGTTGAATCACAGCCACAACGTGACCACCGTGACACCCCTTCACTGC
GCAGCAGCACCAGGCCCTGGGACCGGATGCTGCAGACTCTGAAGGAGCTGGAGGCCCACTCCGCAGAGGCCAGGGC
TGCTGCCTTCCAGCACCTTCTGCTCTTCGTGGGCATCCACCTCCTCAAGTCCCCTGCAGAGAGCTGTGACCTGCT
GGGTGACATCCAGACCTGCATCAGGAAAAGTCTGGGAGAGAAGCCCCGCCGAGCCGCACCAAGACCATCGACCC
CCAGGAACCCCCGTGGGTAGAGGTGCTGGTGGAGATCTTGCTGGCCCTGTTGGCCAGCCAGCCACCTCATGCG
CCAGGTGGCCCGGAGCGTGTGTTGGCCACATCTGCTCCACCTGACCCCGCTGCCCTGCAGCTAATTCTGGATGT
GCTGAACCCCGAGACCAGTGAGGATGAGAATGACCGTGTGGTGGTGACGGACGATTCTGATGAGCGGCGGCTGAA
GGGTGCAGAGGACAAGAGCGAGGAAGGTGAGGACAACAGAAGCTCAGAGAGTGAAGAGGAGAGCGAGGGGGAGGA
GAGCGAGGAGGAGGAGCGGACGGGGACGTGGATCAGGGCTTCCGGGAACAGCTGATGACCGTGTGCAAGGCTGG
GAAGGCGCTGGGTGGAGAGGACAGTGAGAACGAGGAGGAGCTGGGGGATGAGGCCATGATGGCCCTGGACCAGAG
CCTCGCCAGCCTCTTTGCCGAGCAGAAGCTGCGTATCCAGGCCCGGCGAGACGAGAAGAACAAGCTGCAGAAGGA
GAAGGCTCTGCGGCGGACTTCCAGATCCGGGTGCTGGACCTGGTGGAGGTGCTAGTGACCAAGCAGCCCCGAGAA
TGCCCTGGTCTTGGAGCTGCTGGAGCCGCTGCTGAGCATCATCCGGCGCAGCCTGCGCAGCAGCAGCTCCAAACA
GGAGCAGGACCTTCTGCACAAGACGGCGCGCATCTTCACGCATCACCTGTGCCGTGCCCGGCGCTACTGCCACGA
CTTGGGTGAGCGCGCAGGGGCCCTGCACGCCCAGGTGGAGCGGTTGGTGCAGCAGGCTGGCCGCCAGCCGACTC
CCCCACCGCCCTCTACCACTTCAACGCCTCTCTACCTGCTCCGGGTCTTGAAGGGCAACACTGCTGAGGGCTG
CGTGCATGAGACACAGGAGAAGCAGAAAGCTGGCACTGACCCAGCCACATGCCACGGGCCCCGAGGCTGCCAG
CTGCTTGGACTTGAACCTGGTGACCCGGGTGACTCGACAGCACTGAGCTCCTTCTGACCAAGCGCAACAGCCC
CCTCACAGTTCCTATGTTCTCAGCCTCTTCTCCCGGCACCCGGTGTCTGTGACAGCCTGCTCCCCATCCTGGT
CCAGCATATACGGGCCCCGGTCCGGCCCCGTATCAGGCCTGCTGCTGCTCCAGAAGACCTGTCCATGCGGGA
GGTGAGGTCTGCTTTGAGGACCCCGAGTGAAGCAGCTGATGGGCCAGGTCTTAGCAAAGGTACCAGAACTT
GCGCGTGTGGGGGAGGCGCAGACCAAGGCGCAGCATCAGCAGGCACTGTCTCTCTGGAGCTGCTAACGTTCT
CTTCAGGACCTGCAACATGAGAAGCTGACCTTGGACCTGACGGTGTCTCTGGGTGTGCTGCAGGGGCAACAGCA
GAGCCTACAGCAGGGGGCACACTCCACCGGCTCCAGCCGCTGCACGACCTCTACTGGCAGGCCATGAAAACCTT
GGGAGTCCAGCGCCCCAAGTTGGAGAAGAAGGATGCCAAGGAGATCCCCAGTGCCACCCAGAGCCCCATCAGTAA
GAAGCGGAAGAAAAAGGGATTCTTGCCAGAGACGAAGAAGCGCAAGAAACGCAAGTCAGAGGATGGCACGCCAGC

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FIGURE 1853B

GGAGGATGGCACACCTGCAGCCACCGGCGGGAGCCAGCCCCCAGCATGGGCAGGAAGAAGAGGAACAGGACAAA
GGCTAAGGTCCCAGCCCAGGCAAACGGGACGCCAACCAAGAGTCCAGCCCCTGGCGCCCCACCCGGAGCCC
CAGCACCCCTGCCAAATCCCCAAAAGTGCAGAAGAAAAACCAGAAGCCGTCCCAGGTGAATGGAGCTCCCGGGTC
CCCCACGGAACCTGCAGGCCAAAAGCAGCATCAGAAGGCTCTTCCCAAAAAGGGGGTCTTGGGCAAATCACCCT
GTCCGCGCTGGCACGGAAGGCAAGGCTGTCTTTGGTCATCAGGAGTCCCAGCCTGCTTCAGAGTGGGGCCAA
GAAGAAAGCACAGGTGAGGAAGGCAGGGAAGCCCTGAGCACAGGTACGGGCCCCCTCAGCCCCTGCCTCCATCT
GCCTGAGACGCCTATTTTTTTTTTTTTTAAACCATGATTTTAATACGCAAGCTGTTTCTAAGGCGCTGCCACTGG
GGAGGGTGGCTGTTGCCGCTGCCCCGGGCATCCTGCTCTGGCAAGCACAGCCTGAGCCATTCTGCGGGGTCCC
AGGGTGCAGAGACCTCCCCACCCCAAGTTCTGGGCTGGGATCCTGGCTCCAGGGCCATGTCCAGGGCTCTGGTGT
TTGCCTGGGTGGTGCATGTTGATGTGCTGGCTGCAGGCAGGTGTGACCATCTCTCGTGCCTGCCACCTCTTGC
CCCCAGGCTTTTTTGTGTGAGGGAGCCACCAGGGGGTGATTTAAATAGGTTTATTTCTTCATTTACAAGAGGAA
TATATTTGGCTTCTCTCTTAAGACTCTGAGATTACAATCAGCAGCTCTAAAAAATAAAGGAGCAGTTTGGCTTC
CGGAAGGAAGAGGAGGCTAAAAAAAAAAAAAAAAAAAA

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FIGURE 1854

MESRDPAQPMSPGEATQSGARAPADRYGLLKHREFLDFFWDIAKEQETRLAATEKLLEYLRGRPKGSEMKYALK
RLITGLGVGRETRATPCYSLALAQLLQSFEDLPLCSILQQIQEKYDLHQVKKAMLRPALFANLFGVLALFQSGRLV
KDQEALMKSVKRLQALAQYQNLHQEQPRKALVDILSEVSKATLQEILPEVLKADLNIILSSPEQLELFLLAQQKV
PSKLKLVGSVNLFSDENVPRLVNVLKMAASSVKDKRKLPAIALDLLRLALKEDKFPFRWKEVVEQGLLKMQFV
ASYLCFHLLGAALPLLTKEQLHLVMQGDVIRHYGEHVCTAKLPKQKFAPEMDDYVGTFLGECQDDPERQLAVLV
AFSSVTINQGLFVPTPFWRVVRFLSPPALQGYVAWLRAMFLQPDLDLSDVDFSTNNQKKAQDSSLHMPERAVFLRLK
WIIFRLVSIIVSLHLEMEEALTEQVARFCFLHSFFVTKKPTSQIPETKHPFSFPLENQAREAVSSAFFSLLQTL
TQFGKAPQGQTQGGQFWTYHLVQFADLLLNHSHNVTTVTPFTAQQHQAWDRMLQTLKELEAHSAEARAAAFQHLLL
VFIHILLKSPAESC DLLGDIQTCIRKSLGEKPRRSRTKTI DPQEPWVEVLVEILLALLAQPSHLMRQVARSVFG
HICSHLTPRALQLILDVLPETSEDENDRVVVTDDSDERRLKGAEDKSEEGEDNRSSESEEESEGESEEEEEERD
DVDQGFREQLMTVLQAGKALGGEDSENEEEELGDEAMMALDQSLASLFAEQKLRIQARRDEKNKLQKEKALRRDFQ
IRVLDLVEVLVTKQPENALVLELLEPLLSIIRRSLRSSSSKQEQDLLHKTARIFTHHLCRARRYCHDLGERAGAL
HAQVERLVQQAGRQPDSP TALYHFNASLYLLRVLKGNTAEGCVHETQEKQKAGTDP SHMPTGPPQAASCLDLNLV
RVYSTALSSFLTNRNSPLTVPMFLSLFSRHPVLCQSLLPILVQHITGPVVRPHQACLLQKTLMSREVRSCFEDP
EWKQLMGQVLAKVTENLRVLGEAQTKAQHQQALSSLELLNVLFRTCKHEKLTLDLTVLLGVLGQQQQSLOOGAHS
TGSSRLHDLYWQAMKTLGVQRPKLEKKDAKEIPSATQSPISKRRKKKGFLPETKKRRKRKSEDTGPAEDGTPAAT
GGSQPPSMGRKKRNRTKAKVPAQANGTPTTKSPAPGATRSPSTPAKSPKLQKKNQKPSQVNGAPGSPTEPAGQK
OHOKALPKKGVLGKSPLSALARKKARLSLVIRSPSLLQSGAKKKAQVRKAGKP

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FIGURE 1855

AGGTTACTATAGTGTCTGCTCCTACCCCTGGGACAAGATCCCCTAATGAGCTGGCAGGTGGGCGTGGGGGGCACA
GGTACAGCTTGGCTTCTCAGCTTTGCTCCCCTATCCTCTGCTTTGCCATGAATCTCTCATCCAGCCCCGAGGGA
TCTGCCTGGCCAGCAGTGAGCCTGAGCCCCCTTTCATCCTGGGACCTGCCGACCACGGCTCACATCCTCCTGGGTG
AAGAATGTACCTTGCTTCTATCTGCCTCTTTTCGTGGTTGGCTGGGGAGGGGGACCGGGGGTGGGGTGGAGTT
AACCTCATTGTTGTCTTATATGGTCATTTAAATCTCCAGGGCTTCTCCAAGGGCCAAAAATAATCCGGAGACA
CAGCAGCTGTGTCCAGCACACAGAGGACCCGGCCATCTGCTTTGGTTCAGAGCCCTGTGTCTGTCTCAGTCTC
TCCCTGGCTCTCCCTCCAICCTCATTCTGCTGAAGCCATGACCCGCTTCTCCTATGCAGAGTACTTTTCCCTC
TTTCACTCCTGCTCTGCACCCCTCCAGGTCCACTGCACCTCTGAGAGTTCGCCGGCCCGGGCCCCAATGGGCTTG
TTCCAAGGGGTATGCAGAAATACAGCAGCAGCTTGTTCAGACCTCCAGCTGGCGCTGCGGACCCCTTGATA
AAGGCCATCAAGGATGGCGATGAAGAGGCCCTTGAAGACCATGATCAAGGAAGGGAAGAATCTCGCAGAGCCCAAC
AAGGAGGGCTGGCTGCCGCTGCACGAGGCCGCATACTATGGCCAGGTGGGCTGCCTGAAAGTCTGCAGCGAGCG
TACCCAGGGACCATCGACAGCGCACCTGCAGGAGGAAACAGCCGTTTACTTGGCAACGTGCAGGGGCCACCTG
GACTGTCTCCTGTCTACTGCTCCAAGCAGGGGCAGAGCCGGACATCTCCAACAAATCCCAGAGACACCGCTCTAC
AAAGCCTGCGAGCGCAAGAACCGGGAGGCCGTGAAGATTCTGGTGCAGCACAACGCAGACACCAACCACCGCTGC
AACC CGCGCTGGACCGCTCTGCACGAGTCTGTGTCTCGCAATGACCTGGAGGTCATGCAGATCCTGGTGAGCGGA
GGAGCCAAGGTGGAATCCAAGAACGCCTACGGCATACCCCTTGTTCGTGGCCGCCAGAGTGGACAGTTGGAG
GCCTTGAGGTTCTTAGCCAAGTACGGTGTGACATCAACACGCAGGCCAGCGACAACCGCTCTGCCCTCTACGAG
GCCTGCAAGAATGAGCATGAGGAGGTGGTGGAGTTTCTGTGTCTACAGGGTGCCGACGCCAACAGACCAACAAG
GACGGCTTGTCTCCGCTGCACATCGCCTCCAAGAAGGGCAACTACAGGATCTGTGCAGATGTCTGTCTCCGGTGACC
AGCCGCACGCGCATACGCCGTAGCGGCGTCACTCGCTGCACCTGGCGGCCGAGCGCAACCACGACGAGGTGCTG
GAGGCGCTGTGTAGCGCGCGCTTCGACGTGAACACGCGCTGGCGGCCGAGCGCGCGCGCTCTACGAAGACCGG
CGCAGCTCCGCGCTGTACTTCGCGGTGGTCAACAACAACGTGTACGCCACCGAGCTGTCTGTCAACACGGCGCC
GACCCCAACCGCGACGTCTACAGCCCTTGTCTGTGGCCATCCGCCACGGCTGCCTGCGCACAAATGCAGCTGTCTG
CTGGACCACGGCGCGAATCGACGCCTATATCGCCACGCACCCACCGCTTCCCGCCACCATCATGTTGCGC
ATGAAGTGCTGTCTGTCTCAAGTTCTCATGGACCTGGGCTGCGACGGCGAGCCCTGCTTCTCATGCCTCTAC
GGCAACGGCCCGCACCCGCGGCCCGCAGCCCTCCAGCAGGTTCAACGACGCGCCCGCGGCCGACAAGGAGCCC
AGCGTGGTGAGTTCTGTGAGTTCTGTATCTGCCCCAGAGGTGAGCCGCTGGGCGGGGCCCATCATCGATGTCTC
CTGGACTACGTGGGCAACGTGCAGCTCTGCTCGCGGCTGAAGGAACACATCGACAGCTTTGAGGACTGGGCCGTC
ATCAAGGAGAAGGCAGAACCTCCAAGACCTCTGGCTCACCTTTGCCGACTGCGGGTTCGAAAGGCCATTGGGAAA
TACCGTATAAACTCCTAGACACCTTGCCGCTCCAGGCAGGCTGATTAGATACCTGAAATACGAGAACACCCAG
TAACTGGGGCCACGGGGAGAGAGGAGTAGCCCTCAGACTCTTCTTACTAAGTCTCAGGACGTGGGTGTTCCTCA
CTCCAAGGGGACCTGGTGACAGACGAGGCTGCAGGCTGCCTCCCTCTCAGCCTGGACAGCTACCAGGATCTCACT
GGGTCTCAGGGCCAGAGCTTTGGCCAGAGCAGAGAACAAGATGTGTCAAGGAGAAGAATCATTTGTTTACAAAC
TGATGAGCAGATCCAGACCTTCTCTACCTTCAGGAATGGCAGAAACCTCTATTCTGGGGCCAGGGCAGAGCTT
GAGGTGTTCTGGGGAAGGTGGTGCTCAGAGCCTTCCCTGTGCCCTCCACTTGTCTGAAAACTCACCCTTGA
CTTCAGAGCTTCTCTCAAAGACTAAGATGAAGACGTGGCCCAAGGTAGGGGGTAGGGGGAGCCTGGGTCTTGG
AGGGCTTTGTTAAGTATTAATAATAAATGTTACACATGTG

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FIGURE 1856

MTRFSYAEYFSLFHSCSAPSRSTAPPESSPARAPMGLFQGVMQKYSSSLFKTSQLAPADPLIKAIKDGDDEEALKT
MIKEGKNLAEPNKEGWLPHEAAYYGQVGCLKVLQRAYPGTIDQRTLQEETAVYLATCRGHLDCLLSLLQAGAEP
DISNKSRETPLYKACERKNAEAVKILVQHNADTNHRCNRGWTALHESVSRNDLEVMQILVSGGAKVESKNAYGIT
PLFVAAQSGQLEALRFLAKYGADINTQASDNASALYEACKNEHEEVVEFLLSQADANKTNKDGLLPLHIASKKG
NYRIVQMLLPVTSRTRIRRSVSPHLAAERNHDEVLEALLSARFDVNTPLAPERARLYEDRRSSALYFAVVNNN
VYATELLQLHGADPNRDVISPLLVAIRHGCLRTMQLLLDHGANIDAYIATHPTAFPATIMFAMKCLSLLKFLMDL
GCDGEPFCFSCLYGNPHTPPAPQPSSRFNDAPAADKEPSVVQFCEFVSAPEVSRWAGPIIDVLLDYVGNVQLCSRL
KEHIDSFEDWAVIKEKAEP RPPLAHLCLRLVRKAIGKYRIKLLDTLPLPGRLIRYLKYENTQ

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FIGURE 1857

GTGAGGCTGGCGGTGGCGACAACCGAGGAGGAGGGGCGGGACGCCGTGGAGCACGGCGACCGGCTGAGCGTCAATG
GAGGGCTCAGGGGAGCAGCCGGGCCCCACAACCACAGCATCCCGGAGACCACCGCATCCGCGACGGCGACTTCGTG
GTGCTGAAACGTGAAGATGTGTTTAAAGCAGTACAAGTCCAGCGGAGAAAAAAGTAACTTTGAAAAACAGTGG
TTCTACCTGGATAACGTCATTGGCCATAGTTATGGAAGTGCATTGGAAGTGACCAGTGGAGGAAGTCTACAGCCC
AAGAAGAAGAGGGAAGAGCCTACTGCAGAGACTAAAGAAGCGGGCACTGATAATCGAAATATAGTTGATGATGGG
AAATCTCAGAACTTACTCAAGATGACATAAAAGCTTTGAAGGACAAGGGCATTAAAGGAGAGGAAATAGTTCAG
CAGTTAATTGAAAAATAGTACAACATTCCGAGACAAGACAGAATTTGCCCAAGATAAATATATTAAGAAAGAGAA
AAAAAATATGAAGCCATCATTACTGTTGTGAAGCCATCCACCCGTATTCTTTCAATTATGTATTATGCAAGAGAA
CCTGAAAAAATTAACCACATGAGATACGATACTAGCCAGATGTTGACGTTGGGAAATATCCGTGCTGGCAAC
AAATGATTGTGATGGAACGTGTGCAGGCTTGGTGTGGGTGCAATGATGGAACGAATGGGAGGTTTTGGCTCC
ATTATTCAGCTATACCCTGGAGGAGGACCTGTTCCGGGAGCAACAGCATGTTTTGGATTTCCTCAATCTTTTCTC
AGTGGTCTTTTGAATTCCTCTCAACAAAGTGGACAGTCTTCTACATGGAACATTTCTGCCAAGATGTTATCT
TCAGAGCCAAAAGACAGTGCTTTGGTTGAAGAAAGTAATGGCACACTGGAGGAAAAACAGGCTTCTGAACAAGAG
AATGAAGACAGCATGGCAGAGGCCCCAGAGAGCAACCACCCAGAAGACCAGGAAACAATGGAAACAATTTCTCAA
GATCCAGAACATAAGGGGCCTAAAGAGAGAGGAAGCAAAAAAGATTATATTCAGGAAAAACAGAGGAGACAAGAA
GAGCAGAGGAAAAAGACATTTAGAGGCTGCCGCTCTGCTGAGTGAAAGAAACGCAGATGGTTTAATTGTAGCTAGT
CGTTTCCACCCCACTCCCCTGCTGCTGTCTTTGCTGGACTTTGTGGCCCTTCAAGGCCGTTTGTGGTCTACTGT
CAGTACAAAGAGCCTCTGTTGGAATGCTACACAAACTGCGGGAGAGGGGAGGGGTCTCAACCTCAGGCTGTCT
GAAACCTGGCTCAGAAATTATCAGGTTTTGCCAGATCGAAGTCATCCTAAACTGCTGATGAGTGGAGGTGGGGT
TATCTTCTCTCCGGCTTACCCTTGCCATGGACAACCTTAAAGCAGACACCAGCCTCAAATCTAATGCAAGCACT
TTAGAATCACACGAGACTGAGGAGCCTGCAGCTAAAAAACGAAATGCCAGAGTCTGACTCTTAACCCCTTTTGA
GAATTGCTCTGAATTTTGTCTCAGGCATTATACAGTTAGTAATTAACCTTTAAATGCCATTACTACTTGTTTTT
TCATATCCCAAGAATAAGAACATGTCTATGTACCCGTTTCTAGGAAGGAGGAGTATATGCCCTTTGTCTATTTCT
GACACAGATGCATTTGGTCTGTCAAACTGCAACCATGGGGTATGTAGTATGACCAACTGCATTTAACAAAACCTC
CTCTAAGTACTTCTAAATATTCTGTGCAAATATCTTGAGAACTTCAACATCCTAAAAATGTGTTTCTACAAGACT
TTATATTTTAAGCTAAGTGGAATAATACAACGTAACATAAACATGGCGGGTACCGAAAGGAGGGCAATTCATGGA
AGAAATTTCTCTGTTTCATTCGTTCTCTTCAACCTAAGCAATATGGATGTGTGAGTGTGTGATTTATTATGGTA
CCAAAAATGTCCACCTTCTTCTGAGCGGAATAAGCTTTTTTGAATGCTGAGGTTTTATTTTAATAGTTGAC
AACCTGGGAAAGTCTGAGTATTTATTTTACTGCTCTTTTTTGTGCATAGAAAGGTTTAGTAGGGTACTTTTTTG
CATTAATTTGCCAATACTCTTATTCTTTGTTCTAAATAAAGTGACTAGAATTTTGTGTACTATTCAATTAAAGG
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 1858

MEGSGEQPGPQPQHHPGDHRIRDGDFVVLKREDVFKAVQVQRRKKVTFEKQWFYLDNVIGHSYGTAFEVTSGGSLQ
PKKKREEPTAETKEAGTDNRNIVDDGKSQKLTQDDIKALKDKGIKGEIIVQQLIENSTTFRDKTEFAQDKYIKKK
KKKYEAIITVVKPSTRILSIMYYAREPGKINHMRYDTLAQMLTLGNIRAGNKMIVMETCAGLVLGAMMERMGFG
SIIQLYPGGGPVRAATACFGFPKSFLSGLYEFPLNKVDSLLHGTFSAKMLSSEPKDSALVEESNGTLEEKQASEQ
ENEDSMAEAPESNHPEDQETMETISQDPEHKGPKERGSKKDYIQEKQRRQEEQKRHLEAAALLSERADGLIVA
SRFHPTPLLSLLDFVAPSRFFVVCQYKEPLLECYTKLRERGGVINLRLSETWLRNYQVLPDRSHPKLLMSGGG
GYLLSGFTVAMDNLKADTSLKSNASTLESHEETEEPAKKRKCPESDS

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FIGURE 1859

ATGACAGTGAAGACCCTGCA TGGCCCAGCCATGGTCAAGTACTTGCTGCTGTCGATATTGGGGCTTGCCTTTCTG
AGTGAGGCGGCAGCTCGGAAAATCCCCAAAGTAGGACATACTTTTTTCCAAAAGCCTGAGAGTTGCCC GCCTGTG
CCAGGAGGTAGTATGAAGCTTGACATTGGCATCATCAATGAAAACCAGCGCTTTCCATGTCACGTAAACATCGAG
AGCCGCTCCACCTCCCCCTGGAATTACACTGTCACTTGGGACCCCCAACCGGTACCCCTCGGAAGTTGTACAGGCC
CAGTGTAGGAACTTGGGCTGCATCAATGCTCAAGGAAAGGAAGACATCTCCATGAATCCGTTCCCATCCAGCAA
GAGACCCTGGTCGTCCGGAGGAAGCACCAAGGCTGCTCTGTTTCTTCCAGTTGGAGAAGGTGCTGGT GACTGTT
GGCTGCACCTGCGTCACCCCTGTCATCCACCATGTGCAGTAA

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FIGURE 1860

MTVKTLHGPMVKYLLLSILGLAFLSEAAARKIPKVGHTEFFQKPESCPPVPGGSMKLDIGIINENQRVMSRNIE
SRSTSPWNYITWDPNRYPSSEVVQAQCRNLGCINAQKEDISMNSVPIQQETLVVRRKHQGC SVSFQLEKVLVTV
GCTCVTPVIHHVQ

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FIGURE 1861

ACCTGCTGCCGCCCCAGCTGCTGCATTTCTAGTTGCTGCAGGCCTTCCTGCTGTATCTCTAGCTGTTGCAAACCC
AGCTGCTGCCAGACCACCTGCTGCCGCCCCAGCTGCTGTATCTCCAGCTGCTACAGGCCCCAGTGCTGCCAGCCC
TCCTGCTGCCGCCCCGGCTTGCTGCATTTCTAGTTGCTGTATCCAGCTGCTGTGTGTCCAGCTGCCGCTGCCCT
TTCAGCTGCCCGACCACCTGCTGTAGAACAACCTGCTTCCACCCCATCTGCTGCGGCAGTTCTTGCTGCTGAGTG
AAGCTGCTCTGGATTTGTGCACCTTCTTGCTCTCAACCTTCAGTTCAGGCACAGAGTATCTATTTCAGAGAACATG
TGGACTTCCTGATGTCGTGAAAACAGAGGCATGGACTGATTTGGAAAATATTTTATTAGTAIGTATTCTCTTTTA
TAGAAGTTTTTATTCCTATTGAATCTGAATTTACAGTCAAATTCACATCACATGTTTTAGAAATCTTTATTCTA
ATTCAATATACATAAATCTTCAAATGGTATCCTTCTAGATGTTTCTTCCTAATGTTTTCTGIGGTATCAATTTTC
ATGTGGAATTGTTTGATGTTTCCTCAATAAACTTCATAGTGTTCAAAGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1862A

CGGGCCGCGCGGGCGGCCAGCGGGCGTTGGGACGTGGAGACCCGGAGAGGGCGGCGGGACCCGGGCGGGGAAAGG
CGCGGGCGTGGCTTGGCTCAGGTGCGCTTCTCCACCTGGCAGCTCGCTCAGGGCTGTGGGGGCGCCTGTGAGGG
CGCCCGCGTTCGCGGCGTGGGAGATTAAATTAAGATTGGAAGTTTGTGTCTTTTGTGATATTGGAAATTGAA
TGTAATGGCAACAGAATTTATAAAGAGTTGTGTGGAGGATGTTTCTATGGTGAAACAGAAAAACAACTTTTC
TGTGGAAAGAGATTTTAAAGCAGCAGTCCCAAATAGTCAAAATGCTACTATCTCTGTACCTCCATTGACTTCTGT
TTCTGTAAAGCCTCAGCTTGGCTGTACTGAGGATTATTTGCTTTCCAAATTACCATCTGATGGCAAAGAAGTACC
ATTTGTGGTGCCCAAGTTTAAAGTTATCTTACATTCAACCCAGGACACAAGAACTCCTTCACATCTGGAAGAACT
TGAAGGATCTGCCAGAGCATCTTTGGAGATCGAAAGGTAGAACTTTCCAGTTCATCCAGCACGGACCTAGCTA
TGATGTGTATAACCCATTCTATATGTATCAGCACATTTACCTGATTTGAGTCGACGCTTTCTCCCGTTTCAGA
AGTGACGAGACTGTATGGATCGGTTTGTGATTAAAGGACGAACAACTTTCCGGTTCCCTGGGCTAAGCAAATC
TATGTTTGATCTTACAACTCATCTCAGCGATTTCAGAGACATGATTATTGTCCAGTGTACCCAGTAGTTC
TTCTTCAAGGAAAAATTCTCAGGGAGTAACAGAAGCCTGGATACAATTACTCTATCAGGAGATGAAAGGGACTT
TGGGAGACTGAATGTGAAATTGTTTATAATTCTTCAGTAGAACAGATCTGGATCACAGTTTTACAGTGCAGAGA
TTTAAGTTGGCCCTCTAGTTATGGAGACACTCCTACTGTTTCTATAAAAGGAATACTTACATTGCCAAAACCAGT
GCATTTCAAATCTTCAGCCAAGGAAGGTTCCAACGCTATTGAATTTATGGAAACGTTTGTATTGTCTATTAACT
TCAAAATCTACAACTGTAAGACTTGTATTTAAGATTCAAACCCAGACTCCCAGGAAGAAAACCATTGGAGAATG
CTCAATGTCACCTCAGAACCCTTAGCACACAGGAAATGGATTACTCTTTGGATATAACACCACCTTCAAAAATTTT
TGTTTGCCATGCAGAACTTGAATTGGGGACTTGTTTTCAAGCAGTAAATAGCAGAATTCAGTTACAAATCTTGA
GGCACGGTACCTTCCAAGCTCATCAACACCTCTGACTTTGAGTTTTTTCGTGAAGGTGGGAATGTTTAGCTCGGG
AGAGTTGATTTATAAGAAAAAGACACGCTTACTGAAGGCCTCCAATGGAAGAGTCAAGTGGGGAGAGACTATGAT
TTTTCCACTTATACAGAGTGAAAAAGAAATTGTTTTCTCATTAAAGCTTTACAGTCGAAGCTCTGTAAGAAGAAA
ACACTTTGTGGGCCAGATTGGATAAGTGAAGACAGTAATAACATTGAAGCAGTGAACCAGTGGAAAGAGACAGT
AATAAATCCAGAAAAGGTTGTTATCAGGTGGCACAAATTAATCCATCTTGAAGACTTCACACATTAATTTGGTG
AAGAAGTTGACATTCTTTTGAAGACTTATGATTTCAATTTGCTACCAATGAGAAGAGGCAAATCAACAAATTTG
TCAATTTATGGGGGCTATAATTATGGTATATAATGTATCTGATAGAAAATTTGATAAGAAAATGTAATGAATTT
ATCAGATATCCAAAGTAAAGGAAATGTTTTAAACTGCAACAAGAGACACAGACAGTAAATCAAAGTATTATTA
GGATGACTAAATAAATTATAAAGTCTGTGAGAATATCAACCATAGATAGTCTTTCTATATTATGTTTTTGTCTT
TGTATTTTAAAGCTTTACTTAGATATTCAAACCTGGTATATCAAGTCTCTGTTAGTACTATTGGCATTTAGAAGA
CTTTACCATTATTTTCAAGTCTAGGCATTATTGATTAGGTCTTGGCTCCACTGTTTACCTCTGTCTATGATTTTC
TCCCGGTAAAAATGAATTGAACCATTCAACTATTTTCTATATTGGAGAAAGTTTGTGCCCTGTGTTTTATAAT
TTTTTTACCCATAAGACATCACATTATCCCTTTGTAAGTACTTATCTCCAAAAAAGTTTCAAGAAATAGAAAATA
CATTTTGGCAGGAATAATTGAAAACACCAGAAGGTTGAAGTTTAAATTGGAACCCAGAATATACATACTTTGCTG
TTTTCTCCCTCAAATATTTTACTATTTGTTTTATTTGGAGTTAAATAAGAGTATCATCCATATGGTCCATCCT
AATTCACAGAATTAATGAGCTTAAATAGAAAATTCAGTATTTTATGATAATCACTTCGTTTTTGTATTTTAAAA
TTTAGATTATTTCTATAATTTACCGTGTGAGTATTTTCTCATTTTTTTCATAACCATACCTGATTATACTGTGT
AACAAATATTTTCTATTGCAGTTTTCTTTCCAGTACTTATTAGAAGTCAAGTATTGGAATAATTTCAAGCTTAAT
TGACCATAAGAACTGTGGCCAAAAAGAACAGTTTTTGGAGAGGCAGATGACATTATACCTGATTTTAGAAAAATC
TCACCTTATTTTGTCTAATAAGTAGACTAAGTGCTCTGTGTCTCAGTCTTCCCTTTTTTCTGCCCCCATTCTT
ACTTTGTCCAGGCATGCAGAGAAAGATGGTGATTTTTAGGCCAGGAGTATACCTTGCTATAACCTAAGCATGC
CTTCTTTATTCAGCTCCTATGTTCTGTGTATATCATTAACTTTTCCAAATAAACACTTAATCTCTTTTCCC
TAGGTGCCATCTCCTCAAGCTACAAATGTCCACATCTTATATCCCTTTGCTTCTACTGCTCTGATTTTGTGGT
ACCAGTACTCTCTGCCACTGAACATTTTGAATATTTTTGTTTTAGATTGCAAAAAATGACATATAGGTACAGTA
CTCACATGGATTTTTAAGATAAATCACCTGTGTGATAATTTTTGAATCTGAGACGAATACAACTTTTAAAAAT
GTTTTTAAAAATAGACTTTTTTTTTTAGAGCAGTTGTAGGTTAACAGAAAAATTGAGAGGAAGATAGAGATTTCC
TTTCTCCCTGACAAAGCCCTCAACAGCCTCCAGGCTATCAGTATCCTGCACCACAATGGTACATTTGTTACAA
TCAATGAACCTACTCTGAAACATCATTATCATCAAAGTTCATGGTTTACATTAGAGTCCCTCTTGGTGTATATA
CATGCTAGAGGACAAATATATGATGATATGTATGCATCATTATAATATAGTATAGTTTCGCTGCCCTAAACATC
CTCTGCAATGCAACTATTTAATGGGTACCAAAGAAGTAAATGTATTTACTGGCTTTTAGATAATAAATAACGG

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FIGURE 1862B

GCTTTATTGTTTATTTTAAAAGCTACAATTTGTTTGGTTTCTCTGTTCTATTAATGCTTTGAATTTCCAA
ATTTAATATATGTAGTCATGCATTTAACTTAATATTTAATTATTGATTTATTTAATTTTCTATATTCTTACAAT
GTATGTATGATGTATAATTTAAGGGAAAGCTATGACTTCTCAGTTTCTTAGAATCCTAGGTAAATAAAACAATAA
AAAGAAAACCCCTTACATTTAAAAGAGCTTTTCAGGTACAGAAGTATTGATACAATAAGATCCTAAATGTTTTAAT
TAGTGTTTACTTAAAGCCTTTTTCAGGTGAGGAGGTACTAATGCTGGTTATTTCCCTGAAGCTTTATGTGGACCTA
TAAATAAAAAATCCAATCTCCTGCTAATAGGTATGCATATTGTGAGAAAAACGTTAGGAGCTGGTAGTAAAAAATG
AGATTCTATGCCAAAATAACTTCTCTTCATATTTGCCTAGGCATTTCTTGACCTTTACCCACTTACGCAAGGAGA
AGGAAATCATAATGATGTGCATGTGATCAAAGGAAACCATGGAAGGGTTCACGCTGATAGCTGATAGCTTTTACAG
TGCTCATTCCTAACAGTGGATTTACTTGTAAGCTTTTCAGATCAACACAAAATAGCTGCAGCCTGGGTAAAAATATA
ACATCACTATTTGGCTTTTTGTTTTGCATGATTTTTAAAAGCAGTACTCCTAGGGAAATGGCCTCTGAAGTATATC
AGTTTCATCTCTTACCAAGACTGTTAAGAAGAACTAGTGGGATTTTGAACAAGTTATATAATTGTGGTCTGAAA
AGACCCTAACTGAAGTTCTGTTTAAATATAGTTACATGAATTTCTCTGATACTAATGTACTCAACAGCCAGGTA
TAAACTATATCTCCTAGTAACATTTTCCATTTTTGTTTAAATCAAATACTTGCTTATGAAGGATTTCAGAAATTTG
TAATAAATGTCAGCTTTTGTATAGCATAGCAGTAATTGACATTTCAAAAATATATATTTCTTTCTGTGTTTGGTTG
GGTGTAATGAGGAAAATACCTGATAAAATGTCTGAAGACACTTTCTAATGTTATCTTGGTGCATAAGCTGTAATT
TTTATTCAAAATTAATTTCAAATGTTTGCAGTTTTGGCTAAAACATTGAGTTGAAAGAATTATGAAAAGTGGGC
CCATATGAAGTACCATGTTTCAATTTTGAATATAGATTTAAGATTTAGAAATATATTAAGAGTTAATGGAGCCT
CCTAAATTGGATTTTATTTTGTGGGTGAAGAATTGTAGGAAGATGAATGTGGCCTACAGTTTTAGTAATCTCCTA
GTGGAGTTTTTTTAACTTAGTACTTTTTTATTTTAAAGTTTTTAACTCTATAAAAAATGTGATTTCTATAAACC
ATGATTACAATAAATAATTATATTAAAA

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FIGURE 1863

GRAGGQRALGRGDPERAAGPGRGKARRGLAQVRFSHLAARSGLWGAPVRAPAVAAWEINIKIGSLCLLLDIGNLN
VMATEFIKSCCGGCFYGETEKNHNSVERDFKAAVPNSQNATISVPPLTSVSVKPKQLGCTEDYLLSKLPDGEVP
FVVPKFKLSYIQPRTQETPSHLEEELEGSARASFGDRKVELSSSSQHGPSYDVYNPFYMYQHISPDLRRFPFPRSE
VTRLYGSVCDLRTNKLPGSPGLSKSMFDLTNSSQRFIQRHDSLSSVPSSSSSRKNSQGSNRSLDTITLSGDERDF
GRLNVKLFYNSSVEQIWITVLQCRDLSWPSSYGDTPVSIKILTLPKPVHFKSSAKEGSNAIEFMETFVFAIKL
QNLQTVRLVFQIQTQTPRKKTI GECMSLRTLSTQEMDYSLDITPPSKISVCHAELELGTCFQAVNSRIQLQILE
ARYLPSSSTPLTLSFFVKVGMFSSGELIYKKKTRLLKASNGRVKWGETMIFPLIQSEKEIVFLIKLYSRSSVRRK
HFVGQIWI SEDSNNIEAVNQWKETVINPEKVIRWHKLNPS

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FIGURE 1864

GGGGGCGCGGCCGGTTACTCGCTTACCGGAGGCTTCAGTCCCCGGCGCGGCGGCGACAGCTAGGGTTCACGGCCA
CTGGGGCAGAGGAGCCGCGAGAAGATGTGGGTTTTTGGTTACGGGTCCCTGATCTGGAAGGTGGATTTCCCCTAT
CAGGACAAGCTGGTCGGATACATCACCAACTACAGCAGGCGCTTCTGGCAGGGCAGCACGGACCACCGCGGGGTC
CCCCGCAAGCCTGGAAGAGTTGTGACTCTTGTGAAGATCCTGCGGGATGTGTATGGGGTGTGTGCTTACAGATTG
CCAGTAGGAAAGGAAGAAGAAGTAAAAGCATACCTTGACTTCAGAGAAAAAGGAGGCTACAGAACCACAACAGTC
ATTTTTTATCCAAAAGATCCCACAACAAAACCATTTCAGTGTATTGCTATATATTGGAACATGTGATAATCCTGAT
TATCTTGGTCCTGCACCTCTGGAAGACATTGCTGAACAAATTTTAAATGCAGCTGGTCCAAGTGAAGAAATACA
GAATATCTTTTTGAACTTGCAAATTCTATTAGGAACCTTGTGCCAGAAGAAGCAGATGAGCATCTTTTCGCTTTG
GAAAAATTAGTAAAGGAACGTTTAGAAGGGAAACAGAACCTCAATTGCATATAAATTTAGTCTTCAGAGAATTAAC
TTCAGTGCACAATGACAATATGATTTGGAATACGTTTAAAGATCTTATTTTTAATGTAGTGAGGATATTA
TTTAACTTTTATTTTAACTGGAAATGTCCTGAAACACATATTTAAAATATTGGGATACAGTGAAAGAAAAATTC
AAATTTTAATAACATAAAGATTTCTAACTTTATGTTATTGAACACTTACTCACTAGAAGTGAGTTCCTTAGAAA
AATACAGTGAAGGACTCAGTTCAGTCTTGTTTTTATCAGAGTGATAATCATCCTGTTTCACATCCCAATACTATT
TTGAAATTCTAAACAATTAAACCAAAATTCCAATAAATATAAGGTTATGCCTTCAATATATTCTATACAATTCT
GTAACCATGGTTTAAAATACACAAGCTTAAAATAACATGCTTAGAAATACACAATAATATGAACAGTATTTCAGC
CTTAATTGTGAATTTCTTGTATTCAAGTATTAAATGAAATCTTTTGAGTTTTTAGCCAAAAATTGGCATTTTT
AAAATACGAAAAATTTCTTGGAAATTATAATGTACTGTACCTCTTCTTTTTTAAATAAAGGCATTTTACTATATGG
AAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1865

MWVFGYGS LIWKVDFPYQDKLVGYITNYSRRFWQGSTDHRGVPGKPGRVVTLVEDPAGCVWGVAYRLPVGKEEEV
KAYLDFREKGGYRTTTTVIFYPKDPTTKPFSVLLYIGTCNDPDLGPAPLEDIAEQIFNAAGPSGRNTEYLFELAN
SIRNLVPEEADHLFALEKLVKERLEGKQNLNCI

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FIGURE 1866

GTGAAACTCCCTGCCCTGTTCTGTTTCTCTCTGACCACAGTGCATGCAGCCCCTGTCATGTACCGCCTGTTTGC
TCAAATCAATCATNGACCCCTTTCATGTGAAATCTTTAGTGTTGTGAGCCCGTTAAAAGGGACAGAAATGTGCAT
TCAAGGAGCTTGGATTTTAAGGCAGCAGCTTGCTGATGCCACCAGCTGAAAAAGCCCTTCCTTCTCCAACCTCGG
TGTCTGAGAAGTTTTGTCTGCAGCTCATCCTGCTACAGAATGAACTCCTTGTAATTCTACAAGATATGCCATGGG
CCTTTTTCACAGGGGACACAGGCTTCTTAAACAACCCGGCTTCCTCACCCCTATGTCCTTTATTTACAAAGCTGTG
CNN
NN
NNNNNNNTGCATTCTGATTGGCTCTTGGCTTGAAATGTTATTAACGCCACATTTTTTAAATAGACAAAAATATGA
GATTAAAAATGTTGAATTTTACTAACAATAAAAGTTGTTCAAAGGAAAACATAAGGTTCTTGTTTCAACTCTGT
CATAGGAAGAACAGGACAGTGAGCTGGCACAGAGTTAGGGAAATTGACTGTGTCTCATATTGGCTAGTGAGAGTG
ATCTGTTGGAATTGTATATCAAAATTTAATGTACATACATTTTGTCTAGCAATTCIACATTGGGTATTTATAT
AGTACATATAAATAAATGTATATGTTTAGTAAATATATACTTATAGTTAGTAAATATATTTTATATCTATTTA
GTAAATATACTAAATGTCAGGCCTCTGAGCCCCAAGCTAAGCCATCATATCCCCTGTGACCTGCATGTACATACG
TCCAGATGGCCTGAAGCAAGTGAAGAATCACAAAAGAAGTGAAATGGCCTGTTCTGCCTTAAGTATGACATT
ACCTTGTTGAAATTCCTTCTCCTGGCTCATCCTGGCTCAAAAGCTCCCCCACTAAGCAACTGTGACACCCACCTC
TGCCCGCCAGAGAACGATNN
NN
NN
NN
GATGCAGAAATACATGTGTACAAGACTTGTCTGACACCTGGCACAGAACTGACAGTAGTGGCTCCCCAGGGAGG
CTGGAAGGAGGTGGAGGACGTGACAGGGAAAGGAGATGCTTTATGGACAAGGGCCTAAGCTGCAGCTTTGCTTG
GAGCGTTACCACAAAACAAATACATACATCATGTGATGTTTAAATATCACAAATATATATTTAATAATAATTGGTG
GGGCTGAGCACGG

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FIGURE 1867

MTLPCEIPSPGSSWLKSSPTKQLVTPTSARQRTXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXLLQNISQSLIMMQYMCTRLVLTPGTELTVVAPQGGWKEGGGRDRERRCFMDKGLSCS
FAWSVTTKQIHTSCDV

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FIGURE 1868A

GAAAGAAATAATAACTTTAATTATAAGACGTATATGATTTTTGCAGTTTTACTTAGTGTGACATTGGGTTTATGA
GAATCGTGTACATTCAAGTCCAGGAATAATAATGGTCAATCCAAATTGTTTGAAAGGAAAATAATCCAGTGGCAA
AATGATGGTAGAATTTGGGTAATCTTTTTTTTCTTTTATGAAAAGAGATTTTATTGAAGGTAAACATTAGAGG
TTCATTGAGAATCTCTAAATCCATGTTTTGACATTGTCAAGCTCATTGCAACTCCAGATTGAGTAACACTTATA
ACACATTTCCTTTTCAAAGTGCAAGATTTTTAAAAGAGACTTGTACATATTCATTTGGCTGGTTTCAAATGGTG
AGCTGAATGTGGGTAATCTCTACTAGCTCCTTAATCAGATTTAAAATTCTCAGTGTTCCTAGTTGTTTCTGCA
TACTTTATGTGAGTTGTTATAGCTGTAACATTACACTTTATTGCTGTTTGTGTTTCGTGACTTTTGGTAATTCT
GGCATTTAGAAACCTTTTCACTTTGCTTCAAACGTAGTTATATTTTGGAGTTTTCATTTGATATATAATTATTTA
TTTTGCCCTTTTATTTCCCAAAGACATTGTAAGGGTTAATTAGATCATTATATTTTATTATTACAGATTAAAGTT
GGGCAGTAATCTTAATTATGATGGAATTATCATTATGCTAAGTAATTAACCTTTACCTAGTTTGTTTTACAAC TAG
AACCTGCCCTAAATGTTGAATATCTTCTAGCAAGAAACAGTCTGTCAATTTTACTTACACGATGTCTAACCAAAC
CATAACTTTACATAAACTAGTCGTTTCGGTCAAATAGAAAAATGTGTGAATGCCATAAAAAACAAAAATTCTCAGT
TAAATGATAGTGGGAAATAGGGAAGACAGCAAAGTGAGACTTGGGCTCAGGATGGTTCAGGAAGAAAAAAGA
AAGACCCCTGAGTACCATTAAATATTCCTCAGAAATTATTATTCAAAGGAAATATTTCTGTATTATAAATTTTT
CATGAGCAGCCATTATGAAATCTCACAAGAATCATAGAATTCATAAAAAAGGTAGAAAGTAATTTTTTTTACTTA
AAAATATAAATTAATAAATTTTTTAAATCATAAGCACATAAATAGAACTTACCAGGGAGAAAGAAAAACCTGA
AGGCACAATTTCTTTTCTGTTCAAATGTGAACCCAGGATGTCTCTAGATGATGATGGATGATAGGIGGGGAGAT
TGTTTTTTTTTTTAAATACAGAATCTCATAGTTTTGGATTAATTAGCACCAATCAGTTTAAACACTGACTGTTAGA
ATAGCTGCATGGGTTTTTTTCTTAAACTAATTAAGCGTTGGCTACTTAGTATAAGTAAGTATAAGCCGAATTAA
GGTTCGTCTACATCTGTGTTTGAATATTTTTTTTAAACTAAATAAGTGTGGCTAGTTTGGCGTGAAGCAGA
ATTAAGGTTCTGCTACCTCTGTGTTTGAATATTCCTAATGGATTTTTTCATTTTTTCAGGTGCTATTTTTTGACCC
TGATCCACTTTAATTTAAACCGAATTTGGTAACGTTTCTCCTCTGTCTCTACATATATTCATGCTTTACCTGC
TCTTTTAAACCTGCTTTTAGTATCTGAGGCACTTTTCTGAACTCTACTTGTGCACTGGATCCCTCCTCCTTCT
TCTGCCAGGCTGTGTTTACTTTATCCTTACATCACCCTTAGTGATTCCTTCTTTGTATAAACATGGTAAATGT
CTNCATTAGCCTAAAAGGAAAGACCAAATAAACCTTTCTACCCTGGATGCATTGTCATCCTGACTTCTGAA
ATGCCTCCAGCCTCCATTTTCTCCTTCCCAGTTATTCCTAGCCCAGCCATCTCTGTCTTTAGCTCTACAATT
TTCTTAGGATATTCTGGGAAAGATGAGCGGAGACTGCCGCCTTGTCAAATCTAGTGTCTTTTTTTCAGTCTCA
CACTGCTTGACCTATGTATAACCTCCTATACTTCCCTCTTGCATACTCCTCTGGGTTTTCTGTGGTAGTCAAGA
TTCTCCTTGAGATTTATTTCCCATGAGTCTTGACCCCTCCCTCAGTTGGTGCTATTTCCCCCTACCGCCCTC
CGATGATCTTATCAGAGCCACAGGTTAGTTTCTTTCATGCTACCTGAATGTCCTGATAAACTGGCTCGCTCT
CTTCTTTACCTTCCATAATGGCATTACCATTACCACGCCACCAAGATACTTACTAGGAACCTCAAAGTATTGT
ATTCTTTTTCTCCATCACACTCATACTTAATCATCAAGTCTTTTGGCTGTCTCCTCTGAATATGTCCCTTC
TTAATTCCTGCTGCCTTCTTAGTAAAGGCTTCATTCTTTTTTCCCTAGTAATAATCTTTTCCATATGTTCCAGT
TAAATACCATGTTCTCCCTATTCTTTATTACATAGCTAGCATTCTTGAACAAAAACAATCTCTCAGGCCCTCC
ATACCTTTAGCATGTTACCCACTCTGCCCTGTCTCTTCTGGAAGTGAACACTCATCCTTGAAGGCTGGGCTCT
GTATGAAGGTTGGTCTGCTCCTTACTTGAGGTGAAGCTTTGTACATGCCTGTATTACGGACATCCTCTTATTT
AAGTGTGTTGCTCTTTTCGTCATTGGGACTCCAGCACCAGCATAGTCCCTAGTATACTAGTTGGTGCTGAATAAA
TAGTAGCTATTATTAGAAAAGGAAGGTGAAATTGACATGGGAGTTAGTAAATGTATATGGAATGATTTTTAA
AGGGAAAGGTAATGATTTTCTGGCAGGAAAAGCAGCAATGACAAGATTACTTAAGTCTTGTGAAATAACACTTCT
CTTCTTGACCTGCTGCTTCCCTTTTTTACCANACACACACGCACACATACCACAGCCCTTTGAGACTGAAAGCA
GCTCTATTGAGAATAGTAGTGTCAACTGTATTATGTAGAAATTCTAAAGTTTTTGGGATTATTTTCATAGCCCTGA
CCTTGCTACTTCTCTCCACTTTATGTGGCAGGTTTAAATCTCAGGTCTCCCTCATACACTTCTCAGCCTCAGCACC
TAACCTTCACACAACACTCCAGTATTGATGCAGTCAATCTGTATAACATTTTTTGAATGTCCAATGTGCAAAGC
ACGATGTTGGAAATTATACAGAGGTGAATAAGACAAAACTCTTGCTCTCAAAGATGTCAGTCTTTTTCTTTGCA
AGGATAACACATGTAGAGTAAATGCATAAAGGGGACTAATTTAAATGTACAGCTTAATTAATTTTTATGTATG
TTAACACCATGTACACCATTGTTTAGGNNNT
GTACCTACACCTCTAAATCTATTTCAATCTTAATGGCCTTTTAAATAACTGGGCTTCTCACAACCATAGTGAAC
AGAAACAGCTGGGTTGTCAACGTCTAACCTAATACTTCAGGAAACTCATGATGGTTTCCATGTTAAGAGAGACA

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FIGURE 1868B

TGGAGCAGGGCACTGGCATGGTG

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FIGURE 1869

MMVSMLRETWSRALA

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FIGURE 1870

ACCACAAGGAAATTGTTTCCCTTTTGTGAAAAGATGGGATTGGAGTAAACAGTCCCTTCAAGGTCTGACAATCTT
TGATCCATGTATCTGGCCCAGTTCCAGGAGGACATGTTAAAAGGGTTGGGACAGCAGGGTGACAGGTTCCGAGGT
GGATGCGGACCACGTTGAACTCAAGCCTTGCACTCAGCTTTCCTAAGGATTCCCCTCGTACTATATTTTTGTCA
GGCGACTCCGCGGTACCTTTGCTCCGCGGTGATTGGCCTGCAGCGGGTCCTCGTGTGTTGTTCCAATATGGCGGC
GCCCAGTGGCGGTGTGAACGTGTGAGGAGTTCGCCGAGTTCCAGGAATTACTCAAGGTGATGAGGACAATTGATGA
CAGAATAGTACATGAATTAAACACTACGGTTCCAACAGCTTCCTTTGCAGGGAAAATTGATGCCAGCCAAACCTG
TAAACAACCTTTATGAGTCTTTGATGGCAGCTCATGCCAGTAGAGACAGAGTCATAAAAACTGTATAGCCCAGAC
TTCAGCAGTAGTAAAAACCTCCGAGAAGAGAGAGAAAAGAATTTGGACGATTAAACGTTATTAACAACACTTAG
AAAAGAGCAGACAAAGTTGAAATGGATGCAGTCAGAACTGAATGTTGAAGAAGTGGTAAATGACAGGAGCTGGAA
GGTGTTTAATGAACGCTGCCGAATTCACCTCAAGCCTCCAAAGAATGAATAAGAGAGAGATTCTTTTTTTTTTTT
TTTTTAAAGGACTGGGTCATCTCATAAGAGCTAAGCATGACAGATATCAACAGGGCGGGCTTCCTAGGATGATTT
CTGAGCCAACAGTCCAAGACCTTTGTGATTTAGCCCCACTTAGCCAAGACCTCAAGTATAAATAATTCTGAT
AATTATGGAGAAATCAACTGCTATTTTATACTGATTCTGTAAAAAAAAGTTTTGTAACCTATTAAATAATGTT
CTGACTCAGTGTAAAAAAGAAAAACCAACCTG

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FIGURE 1871

MRTIDDRIVHELNTTVPTASFAGKIDASQTCKQLYESLMAAHASRDRVIKNCIAQTSVVKNLREEREKNLDDLT
LLKQLRKEQTKLKWMOSELNVEEVVNDRSWKVFNERCRIHFKPPKNE

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FIGURE 1872

TGCTCAGGATCAACAGTGGTTAGCCAAAATGGTCCAGTATAATACACCATATATGCTTATGTCATTCCCTTGCT
TTGTTGTTACATTTATTAGGTCTATACTAAATTAGCCTTCAATGATGAAGACAGACTAAAGCTAAGCCACATGAG
ATCAAGGCCAATTCAACATGGTTGCCTGGAATTCTCCAAAAACCTGTGGGTTGTGGGTTTGGCATGTCAAGCTT
CAGACCACAAGGTCTTAAGTGGTAAATAGATGCGTTGTCCTAATACTGTTCCAAGGTAGAGAATCCTGATGATAA
GGAGTATAGGAACTCAAATAGTTCATTATTTCTAAAAATGTATATTTTAAGGCATGATACAAGTCTTACAAAC
CTCATAAGTAGGTGAAAAAAAACCCCTGTGGAGTGATAAACATTCTATAAAACCTGGAAATTTGTGTGGAGTTC
GCCTAAGCTCACITTTCTAAATATAGCTATATAATATTGTAACAAATTTGTTTTTTAGAACTTTTAAGAAGA
TTTCTGTGAGCGTAATTGACAATATCTGCATTAGAAACAGAAAGTATTATCCATCATAAATATGAGAAAAGTGTG
TGCTCTCTTTCTGACAATCTTTTTATCTTATTTTTTTCAAACGTTGTGGTTGTGTTTCAGCACCATTTTAAAGA
ATTTGAATACAAACATCCCTCAGCTTATCAGGTTGACATTTATGAAGCTGACCTCATCACTCTTTATCTTTTAT
GTCTGCAGTATAAATAGCATAGACATTTGGTGTGAAGGGAGGAGAAAGGAAGTAGTAGTTCTGAGAATATTCATT
TGAACAGCGTGACTATGGAAGAATGAATAGCAAAAAAGGAGAATTTTTTTAAAAAGATCTCTCACTGGGAAAAG
AAAAAGTTATGCATTTATAAAGTAATTAAACTGGTTTTCTTGTACTTTATTAATCTGAATCTAATGGCACTTCC
TTACGAGGGTTTTAGATGTGCTTGTAGTTAATGGCAACATTATCAGAATGACTACACAGACAGTCTACTCTGA
GGAGATGACTTTGGAAGAAACCCATTTGGAAGTACACACCCCTGCTATGTCTGTGGAGAAATGGAAGTCAATCCT
CAAGAGTCACACTTCATATTCCTTCCCTTCAAGTGGTTGATAAAAGGTAGTGCTTCAAGCACAGGATTTATGGAA
TAGTTGGCAAAATTAACAACATGCTTTTTATTTTGACTACCATTTAAGTGGAATCTTTGAACTTTTTTTTTGACA
TGTAATCTCTAATGTGGTGAGAGAGAAAAACATAAAAAATATAAAAAACATTCAAGCAATCG

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FIGURE 1873

PQDQQWLAKMVQYNTPYMLM

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FIGURE 1874

TGGCAGTGATGTCATTTCCTTACTAGGCTTCCAAAGCCACTGCTGTGGCCACAGCTTCCATGGAGACAGGCAAGCT
GAGCCTCTATGTGGCACCATTCTCTGCAGCTGTTTGTGTTGGAGGGAAAAAATCCAAATGGACATCAACAGCTT
TCATCAACTAAATAACACAGAAAAATATTTATGAAGACTATAAAGCAATGATTACTTTTGAATTGGAAAGGAATC
ACTATTATTTGAAATGTTTCTTCAAAAGTGAGCATCCGGACAGGAACCATCATGGATGCTGAGGCCATGGATGAA
GGCCTACTCGGGAAGATGATATCCTTGCAGTCTCAAAACGGCACCCACAAAGGTGATATCCTAATTTACAAAGG
GAAAAAGGTACCTTAATCTGAAATCTGGCAAATGCAGCCTCAACAGAAGTGACAGAATTGAACATCGCCAAATAAT
GGGACACACAGACATCACATGCCCCAGTCTGATGCACCACGGAGTCGTCTCTGATGTATTCTTGTCAAAAAATG
TTTGCTGATTCTAATCATGAAAGAACAATTAGAAAAATCCAAATTGACAGATATTCTGCAGAATAAATGGCCT
GACCTCATCAAAAACATCAATGTCATGAAAAACACAAAACATTGCAGATAGCGTGAAATTAAAGATTACAGAT
ATAACTTAATGCAAGATCTCTGACTGGATCCTAGACTGCAGGAAAAAGTCTGCTATAAAGAACATTGGATCACT
TGTAGTAGCTGGGAAATAAAACAAAACATTATTTGTAAAAGGGGGGAAATCTGAACATGGGTCTTGCAGTATTTA
TGACAGTTTTTGCGGGGCAGAGATTTCTAGATTGACAGCTGTTTTAGTACTTTCAAGGTGATGCTCTGTCTGTG
GTTTGCATTGTTTCTGTCTGAGTTAAGAGACTGGCAGAACACAGAGTTGCAGTAGCCAAACACTGGAGAAAGCTG
GGCCTACAGAAACCTAACGCTGAAGAAACCTCAGGAGCCAAACTGGTGGAGAAAAACAAGAGTCCCTCCCTCTCT
CCCTTTTCAAATAATGATCATACTCTTCAAGCTGTCTGAAATGGTTAAGGAGTTCAGTCTGTCTGCTCAGGCACAC
ACCAGAGCCAGCTAGCCACACAGACCCCATCAGAGCAAAAACAGACAAGAGAATTTAATTCATATCCACATAGAA
AGGACTTCTAGGTAGGAGGTAGACCCTTTAGCTCCCTTCCAATTAAAGGAGTCCCAATTCTGGCACCTGAGAGT
CCCTGGGTCTAACAGCTATGATATTTATGTAGTGTGTTGCTTACCTAAATGAATACAATTTCCCTCCAGACACG
TGACACTGATATTAAAGTGCTAATGAGAGGGATCTATTTCTTCTGTACGCTAAAAGAGAAACAGTAGTTTCAGAT
TTCCCATCAGAAGTCCGAGGACTTTGTTCTTGTGATACTACTACCAATAAAAAATTGAGTATTTGAAAAATTCCTTT
GTATTTTCCATCCATACACATTTTTTTTTTAAAGCATTTTAGGAAGTCCTCTAATTATATAGTAAAAATTGTCAGC
AATGGCCTGCTAGTTTTTCTATTTGACCTAATCACAACCATCCTCGTTAGGTCTGAGGTCTGCTCTGCTGCTTGG
CCAAAACCAAATGGTGCCAGGTACAAAAGCACTTGCACATGTGAATCCTGCATCCATTCTACAATGGGTCACTAT
TGACTGAAATACTTTAATAAAAAATGATAGAGCACATAAAGCTTGCTGTTGACAGAAACTTCCGTGCTCAAGCAAG
GCAGTGCTATACATGGTGAGACCTTGCACAAAGTCAGTTAACTAACAGATGATCTAGAAGCAGGTGACACAATGA
AATACCTTTTGGAGCTGTTGCCTATGTCTGTGGATAGGCTCTTTGTAGCTAGGTTAGGCTTCTGTGTTAAAGTGT
GTTAGAAGAAAGCATCACATAAGGAAAAATAGAAGTCTATTTCGTATGTTTTTTTCAAAACAGAAGTCAAGTCACATT
CAGGCAAACCAAATCTGTAACATTCAAGAAGATGCAGTGACTCTTCCGCATCTTAGAGCCACGGTGTCTGAGGTG
GCTGGCATGGCTCCAACACGCTGGCTTCCCTGTGAGTGGATCATTTACAATATGGTGCATTTCAAATTAAGTGTG
AATTCAGTGAATACTGGCTGTTTTTTTTTTTTTAGGGGTAATCTTATACATAAAATTTAGGAAAAAGAGAGAAA
AAAGCAAAAAATGACAGAAATAACTCAAAAGTTCCTAAAATTTATGTGTATCTTTTCGTACCTGTGAAGTCTGAA
TAAGTATTTATATCTGACAGGTACAAATACAATAATTATATTTTAAAGTAAAACCTATTTAATAATATGAAGTAT
GGTGTAAATACATGTATTAAAAGATAAGTAACTTCAGAAGTCTTCTGACTTTTTAATTGTAAAATAAGTGAAAA
CTGTTTTGTGCTTTTTTTTATTACTGTATGC

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FIGURE 1875

AVMSFLTRLPKPLLWPQLPWRQAS

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FIGURE 1876

TTTCTCTCACGTGCCTATGGAGGAGAGAACACACATAGTTGGATTGATCCATACATAATTGGGCGTTTGCAGGCA
AGTATGAGGACAAGAAGACAAAAAGATGAAAGTATTTGTAGGCATGATTCAAGATTAGAGTCACAGTGTTC AAG
CTGCTCGCTGATGAAAAGGAAGCCAAGAAAGAGCTGTGAGAGTGAGGAGAGGATGGAAGCCTTTAGGTTCTCCAT
TCAATCCAAGAACGGAGCGGGAGAGCTGGGAAGGATAACGGGTTTGCTTAGAGGGTAAGATATGACATTTAATAC
ATTCTTCAGAAGTGAGATGTTTAAAGGAGTGACCAGGTTGACTGTGTGACCATGAGTATGAGTAAATGAAGTAGA
ATGAAAATGGTCAATGTAGTTGAGAAAGTCAAATAATGGTGAGTATTTTAGGATATAGTTGTGATTTACAATTT C
AGGTGTGGGTCAGTCAGAGTTTGCTGTTGCTGACATGTTGTTTTACTACTGCCACCAGCAGGAGG
AGATGAGCTGCAGGGTATCAAAAGGGGTATAATCGAGATGGCAGATCTGGTAGCTGTAAC TAAATCTGATGGAGA
CTTGATTGTGCCAGCTCGAAGGATACAAGCGGAATATGTGAGTGCACTGAAATTACTCCGCAAACGTT CACAAGT
CTGGAAACCAAAGTAATTCGTATTTCTGCCCAGAGTGAGAGGGGATCTCTGAAATGTGGGATAAAATGAAAGA
TTTCCAGGACCTAATGCTTGCCAGTGGGGAGCTGACTGCCAAACGACGGAAGCAACAGAAAGTTTGGATGTGGAA
TCTCATT CAGGAAAGTGTGTTAGAGCATTT CAGGACCCACCCACAGTCCGGAACAGATTCCACTTCTGGAACA
AAAGGTTCTCATTGGGGCCCTGTCCCCAGGACTAGCAGCAGACTTCTTGTTAAAAGCTTTTAAAAGCAGAGACTA
ATAAAATTCATCCTGTATAATAATTTTACATATCATTTCATAAAGTATTTTAATAGAAA

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FIGURE 1877

MVDMFVLLLPPAGGDELQGIKRGIIEMADLVAVTKSDGLIVPARRIQAEYVSALKLLRKRSQVWPKKVIRISAR
SGEGISEMWDKMKDFQDLMLASGELTAKRRKQQKVMMWNLIQESVLEHFRTHPTVREQIPLLEQKVLIGALSPGL
AADFLLKAFKSRD

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FIGURE 1878

AAAGGAAAACGTGAACCTCTTTAATAATACATTATTCAAATTCAAAGATGATAGCACATTTTGAGATTCAGATTG
GTAATGTATCTTTGATTACACTTTGCAAATGTATTTGACAATTAACCATATACTACTACTTTTTATTACTGAGGT
AGGAGGCAGGACTAGACTCTGGAGGTGGGGATTGGGCTCCAGACCACACTGAAGACAAGCTGAAAGGGAAGAGGT
GAAAGAGTCTCTCCATAAAACACACTCACCAGTGCCACGTCAGGTTACCATTGCTAAGGCAACAGCTGGAAGTTT
TGGCTCCTTTCCATAGCAACAATCCCACGAXCCTGAAGTTACGACCTTTTTTCTAGAAATTTGGCATAATCCAC
CCCTAAATTTGCATATAGTTTAAAGTGGGTATTAATGTGATTGCAGTACTGCTTCCGAGCTGCTACTCTGGGCAC
ACTGCCTATTGGGAGCC

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FIGURE 1879

TGAAGTAGAATTTTATTACAGAATTTACAAAAGAACTTAATATCTAAGTGTAAGATAGAAAGCATTGAAATTCA
TTAGCATCTATAAATACAAGATGATTTTCTCATACCTACCTCTACCACAACCCTAAATCAAAACAATTTCTTATG
AAGCITTCAGTTTTCCAGAGGTAAATTCCAGTACAATATTTGGCATGCTATTAAGTGAGTGGGTGCTGAAATCCT
ACTTCGTTTTCCTTTTCTTTCAAAGAAGGAAAATAAGGACTGTGCATATCGAAAATCAGCGTTTCTAGGAAGTTG
AAAGTTTGGGACAGTCTTCTTGGACACTCAATCCTAAATACATGAAAGGCAGCTACTAGCGCAGCCAAGGCTGTG
ACACAGTCGTCCACCTTTGTGAGCCTCTCCCTTTCTAAATATAAAGAAAATTGCGAGACCTCCATGTTGAAAGGG
TTTTTAACCTCCAACACAGGTGTGGACACTTGCACCTGTTTCATTTCATGATGACAAAAGGCTGGGATCATCCCCA
AAAACATCTGGGAGGAGTAAACATGTGGCTGTCATCTTCATGTATTTCAACATGTCTTCATCTGTGTAATGTTTC
ATTTTTCTTGCAATACAATATTGATTGGATTGTCCACCACTGAAAAAGAAGTCAGTATATTTTCTGAATAGGAT
TCCAAAATGTGCCITGTTTTCTTATAAATATCTGTTCTTGTAAGAAGTTGGAATTCTCTGAACATCTGATAAGGG
CACTTCAAGAAAGGAAACAGTTTAAAGAAATGTCCTTCAGAGGTGTTTCGGCTGCCAATCATCTTTCTTCTTATTTCC
AAAGTTTGGCTCAITTCCTTGTCAATTTCTCTCCAGTCCTTTTCTGTTTTCACGTATTCTTGCTGGAACCACTTA
ATATGTTCACTAGCTCAGAATCAAAACAAACAGCTTCTTCTTTTATCTGGACAAGTTTAATTTTCATCAAATCTT
ATATCAGCAAGAGATTTCCCTTGTCTGGCCTCTTCGGTGTCCAAATTTACACTTATTTCTAATCACTTGCTCATCA
TCTTCTATGGGTCTTCGAACATATTTAAAGCGATCTTTGAGGGCTCGTTTCCATAAAAAGAAGCCACAGCCATCC
TCATCCAGGAAAGGGTGGGCCTGCAGCAGGGCATTAAACCACGTCATTGTACTGCTGGGTGCTGGGGTACAGTGAG
CCTTCCAGATACTTAGTCATGTGGCCTGGAGAACTCAATGATCC

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FIGURE 1880

GGGACAGAGTGATCAAGGCAGAGTGATCTAAAGGACACAGTAGTACTTCTTTAGGACCCTGGCAGAATGGAAGAG
AGCATCTGGCTTCTAAGGCACTGCACAACTTGAATGATCTTCTTCAGAATTGACAAGGAAAGGCCATGTATGT
TCACCCTGGGTAAAGTTTTAAGTGTATCTTATTTAATTTTTTTCAATATGAGTCATCTCCAGATACTGTGATGAT
TTCCAAATAACCAGAATCTAGATGACTAGAAATTTACTCTAGCTGGCTTTAGACAGGAAGCGTGAGGACAGAATC
CAGCTGCTTCCACTCCAGGGTAGGTCTGAAGCCAACCGTCCTCGGTTTCCTGGCCTGTGGCATCAGTCTGGTTGG
ATTACACACAAAGCCCTGCAGATCTGCTGCTTTTCCTGATTCTCCTGTCTGAGTGAGTGCAAGGGGCTCCCTG
TCGCCGATGTGTTCTTTGAAGCAGATGCTGTGCCTGATACCTGCTGGAGAGTCCCACCGCCTTGAGCTTCTGGGT
CGAGAAAGGCCAAGTTGCACACTACTGAGAGACTGCCATGCACCCCTGGAGGCCTCAGAACATTCGACATGCTC
CAGTCATGGCCACGGCAGTGACTGCTGATTGCCTAACCCACATGTGTTCTCCCCCTTCCCTGATAATCAAGCCC
CTGATTTTCAGCTGGGCACAAAATAATTCTTCCTAGAACAACTCCACGTGTGTTATCGCCCTTGACGCTGGGGGT
GGCCACCACTGGGGAGAGGCAGGGTGAAGAGGTCGAAGGAGCCTGAGTTAGCAGGGATGAGCAGTGGCCAGGTAA
CCCCAGACCCATTATCCTCTGGATTCTTTTATGTGAAACAATAAAATGTCTTGATTTCGAAAAA

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FIGURE 1881

MSSGQVTPDPLSSGFLLCETIKCLVFEK

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FIGURE 1882

TTATGCAATTAGGGCTTGCTTAATTTTGGTAATTTGTCTATCATTTTGTGTGCATATCAGAAGATAAATATGTGC
CTTTGGAAGGCCITAGCACTATTCACTTGGAGTTTTTACAGAAAATATTTGGGGGTGGCCAGCATACCCAGTTGG
TGTTAATCCTTGCTTATTATATCCAGTGCCTTGTAGAGTGCAGTAATTCGTTGAAAATCTGCTTGGAATCTTT
GATGTATACATTATCCAAAAATAACCTGACTTTAAGGTCATTGCTATCTGGTTTAGGAGTCACATGTTTGAGAAT
TCTGGGACTATTAGCACCACACACTTTGTAATTTTATATCAGATGTTNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NN
NN
CTTCTGTTTCATCTGTAGGATATGGATAACAATAGTTAAGAGTTGTGAGAATTAGAAGTTAGAGACCTTACTCAG
AATACTAGGGAGCAGGTGTTAGGGATTTTGGAGCTTTACCTTTTAAGAAGTTTGTCCATATAGTAGACAACATA
CTCACCAGTGAGGACCTCAAATAGCAATATTTCTGTGGTGAAATTTGGGGATATTTATGTTAAATAAACAGCATG
TCAGTCAAGGTTGGGTTTTCTTGACAAAAATTTGAAAGAATTTCTCTGGATTTTGGTTTTTCAGGACTGGTGTGACT
TAACATACATGGCATAGATAGTATACGTCTGTTAAGTCAGTAATTACACTTACTTGAGCACAGGTACTGTTCAAG
GTGCTGAGAATACAGTATAGACAAATTCCTACCCTTATGAAGCTGATGTTGCAAAAAA

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FIGURE 1884

GGAAACTGAAAACACACCTGCAGCATCTCCGGTGAAAGGAGCGAAGAACACGGACTGGGAGCACAAAGAGAAGT
GCTGTGCGCGCTGCCAGCAGGTGCTGGGGTTCTGTGCTGCACCGGGGCGCCGTGTGCCGGGGCTGCAGCCACCGCG
TGTGTGCCCAGTGCCGAGTGTTCCTGAGGGGGACCCATGCCTGGAAGTGCACGGTGTGCTTCGAGGACAGGAATG
TCAAAATAAAAACCTGGAGAATGGTTCTATGAGGAACGAGCCAAGAAATTTCCAACCTGGAGAAGGTCAGTGCACCA
GATATTCTGAAACCTCTCAATCAAGAGGATCCCAAATGCTCTACTAACCCATTTTTGAAGCAACAGAATCTCCCA
TCCAGTCCGCGACCCAGTACCATATTCTCTGGAGGTTTTAGACACGGAAGTTTAATTAGCATTGACAGCACCTGT
ACAGAGATGGGCAATTTTGACAATGCTAATGTCACTGGAGAAATAGAATTTGCCATTCAATTATGCTTCAAAACC
CATTCTTTAGAAATATGCATCAAGGCCTGTAAGAACCTTGCCCTATGGAGAAGAAAAGAAGAAAAAGTGAATCCG
TATGTGAAGACCTACCTGTTGCCCGACAGATCCTCCAGGGAAAGCGCAAGACTGGAGTCCAAAGGAACACCGTG
GACCCGACCTTTTCAGGAGACCTTGAAGTATCAGGTGGCCCTGCCAGCTGGTGACCCGGCAGCTGCAGGTCTCG
GTGTGGCATCTGGGCACGCTGGCCCGGAGAGTGTTCCTTGAGAAGTGATCATTCTCTGGCCACGTGGGACTTT
GAAGACAGCACAAACAGTCCTTCCGCTGGCATCCGCTCCGGGCCAAGGCGGAGAAATACGAAGACAGCGTTCCT
CAGAGTAATGGAGAGCTCACAGTCCGGGCTAAGCTGGTTCTCCCTTCACGGCCCAGAAAACCTCCAAGAGGCTCAA
GAAGGGACAGATCAGCCATCACTTCATGGTCAACTTTGTTTGGTAGTGCTAGGAGCCAGAATTTACCTGTGCGG
CCAGATGGCACCTTGAACCTCATTTGTTAAGGGCTGTCTCACTCTGCCAGACCAACAAAACTGAGACTGAAGTCG
CCAGTCTTGAGGAAGCAGGCTTGCCCCAGTGGAACACTCATTTGTCTTCAGTGGCGTAACCCAGCTCAGCTG
AGGCAGTCGAGCTTGGAGTTAACTGTCTGGGATCAGGCCCTCTTTGGAATGAACGACCGCTTGCTTGGAGGAACC
AGACTTGTTCAAAGGGAGACACAGCTGTTGGCGGGGATGCATGCTCACAATCGAAGCTCCAGTGGCAGAAAGTC
CTTTCCAGCCCCAATCTATGGACAGACATGACTCTTGTCTGCACTTGACATGAAGGCCCTCAAGGTTCCAGGTTGC
AGCAGGCGTGAGGCACTGTGCGTCTGCAGAGGGGCTACGAACCAGGTGCAGGGTCCCAGCTGGAGACCCCTTTGA
CCTTGAGCAGTCTCCATCTGCGGCCCTGTCCCATGGCTTAACCGCCTATTGGTATCTGTGTATATTTACGTTAAA
CACAATTATGTTACCTAAGCCTCTGGTGGGTATCTCCTCTTTGAGATGTAGAAAATGGCCAGATTTTAATAAAC
GTTGTTACCCATGTCAAAAAGGAGATAACCCACCAGAGGCTTAGGTAACATAATTGTGTTTAACGTAAATATACA
CAGATACCAATAGGCGGTTAAGCCATGGGACAGGGCCGAGATGGAGACTGCTCAAGGTCAAAGGGGTCTCCAGC
TGGGACCCCTGCACCTGGTTCGTAGCCCCCTCTGCAGACGCACAGTGCCTCACGCCTGCTGCAACCTGGAACCTTGA
GGCCTTCATGTCAATGCA

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FIGURE 1885

MRNEPRNFQLEKVSAPDILKPLNQEDPKCSTNPILKQQNLPSAPSTIFSGGFRHGSLISIDSTCTEMGNFDNA
NVTGEIEFAIHYCFKTHSLEICIKACKNLAYGEEKKKCNPYVKTYLLPDRSSQGKRKTGVQRNTVDPTFQETLK
YQVAPQVLVTRQLQVSVVHLGTLARRVFLGEVIIPLATWDFEDSTTQSFRWHPLRAKAEKYEDSVPQSNGETVR
AKLVLPSPRPRKLQEAQEGTDQPSLHGQLCLVVLGAKNLPVRPDGTLNSFVKGCLTLPDQQKLRLKSPVLRKQACP
QWKHSFVFSGVTPAQLRQSSLELTVWDQALFGMNDRLGGTRLGSKGDTAVGGDACSQSKLQWQVLSSPNLWTD
MTLVLH

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FIGURE 1886A

CAACTACGGCTAGGTACGAGGCTGGGTGTCGGAGGCTCCGTTGCCTGCTCCCGAGGGAGACGCGCTGCCGAGGA
GAACCCAGCGGGAGAACATTTTCAGGATAGGAATAGGCCAAGTGCTGAGAAGATGAGTCTTAGGATTGATGTGGAT
ACAAACTTTCTGAGTGTGTTGTAGATGCAGGAAAAGTACCCTTGGGACTCAGCAGAGGCAGGAGATGGACCCT
CGCCTGCGGGAGAAACAGAATGAAATCATCTGCGAGCAGTATGTGCTCTGCTGAATTTCTGGTGGGGGCATAATC
AAGGCTGAGATTGAGAACAAGGCTACAATTATGAACGTATGGAGTAGGATTGGATGTGCCTCCAATTTTCAGA
AGCCATTAGATAAGATGCAGAAGGAAAACCACTTTTTGATTTTTGTGAAATCATGGAACACAGAGGCTGGTGTG
CCACTTGCTACCTTATGCTCCAATTTGTACCACAGAGAGAGAATCCACCGATGTATGGATTCTCAGGAAGCT
CTGGCATTCTCAATGCAGGACTCAGACTCCAACGAATATTAATGTTTCCAATTCATTAGGTCCACAGGCAGCT
CAGGGTAGTGTACAATATGAAGGTAACATAAATGTGTGAGCTGCTGCTTTATTTGATAGAAAGCGGCTTCAGTAT
CTGGAAAACTCAACCTTCTGAGTCCACACATGTTGAATTTGTAATGTTCTCGACAGACGTGTACACTGTGTT
AAAGACAGACTTCCGAAGTGTGTTTCTGCATTGCAAATACTGAAGGAGGATATGTATTTTTTGGTGTGCATGAT
GAGACTTGTCAAGTGATTGGATGTGAAAAAGAGAAAATAGACCTTACGAGCTTGAGGGCTTCTATTGATGGCTGT
ATTAAGAAGCTACCTGTCCATCATTCTGTCACACAGAGGCTGAGATAAAATATGTCCTTAACCTTCTGAAGTG
CATGATAAGGGGGCCCTCCGTGGATATGTCTGTGCAATCAAGGTGGAGAAATTCGCTGTGCGGTGTTTGCCAAA
GTGCCTAGTTCTGCGAGGTGAAGGACAACCGTGTGAGACAATTGCCACAAGAGAATGGACTGCTTGGATGATG
GAAGCTGACCCAGACCTTTCCAGGTGTCTGAGATGGTTCTCCAGTTGAGTTTGTATCTGCCACGCCCCGAGC
AAGCCTGTGTGCAATTCATAAGAATTCGGAATGTCTGAAAGAGCAGCAGAAACGCTACTTTCCAGTATTTTCAGAC
AGAGTGGTATATACTCCAGAAAGCCTCTACAAGGAACCTTCTCACAACATAAAGGACTCAGAGACTTAATAAAT
ACAGAAATGCGCCCTTTCTCTCAAGGAATATTGATTTTTTCTCAAAGCTGGGCTGTGGATTAGGTCTGCAAGAG
AAGCAGGGAGTCTGTGATGCTCTTCTAATTTCCAGAACACACCCCTATTCTCTACACCATCTTCAGCAAG
TGGGATGCGGGGTGCAAGGGCTATTCTATGATAGTTGCCTATTCTTTGAAGCAGAAGCTGGTGAACAAAGCGGC
TACACTGGGAGTTATGCATCACCCCTTGGTCTGTGTGCTGAATTCGATAGAAAAGCACAGAGCGTTTACAGT
TCGTATTTACAAATTTACCCTGAATCCTATAACTTCATGACCCCCAGCACATGGAAGCCCTGTTACAGTCCCTC
GTGATAGTCTTGCTTGGGTTCAAATCCTTCTTAAGTGAAGAGCTGGGCTCTGAGGTTTTGAACCTACTGACAAAT
AAACAGTATGAGTTGCTTTCAAAGAACCTTCGCAAGACCAGAGAGTTGTTTGTTCATGGCTTACCTGGATCAGGG
AAGACTATCTTGGCTCTTAGGATCATGGAGAAGATCAGGAATGTGTTTCACTGTGAACCGGCTAACATTCTCTAC
ATCTGTGAAAACAGCCCTGAAGAAGTTGGTGAAGTTTCAAGCAAGAAAAACATCTGCCAGCCAGTGACCCGAAA
ACCTTCATGAAAAACAACTTTGAACACATCCAGCACATTATCATTGATGACGCTCAGAAATTCGGTACTGAAGAT
GGGGACTGGTATGGGAAAGCAAAGTTCATCACTCAGACAGCAAGGGATGGCCAGGAGTTCTCTGGATCTTTCTG
GACTACTTTAGACCTATCACTTGAGTTGAGTGGCTCCCCCTCCCTCAGACCAGTATCCAAGAGAAGAGATC
AACAGAGTGGTCCGCAATGCAGGTCCAATAGCTAATTACCTACAACAAGTAATGCAGGAAGCCCGACAAAATCCT
CCACCTAACCTCCCCCTGGGTCCCTGGTATGCTCTATGAACCTAAATGGGCTCAAGGGTGTCCAGGCAACTT
AGAGATTATGGAAGACTTGAACCTGGAGGAGATACTGATCTATGTAGCGAATAAATGCCGTTTTCTCTTGCGGAA
TGGTTATTCTCTGAAGGATATTGCTGTGCTTTTACCAGCAAGTGAAGTGGAAAAATATAAAGACAGGCTTCT
AACAGCAATGAGGAAGAGAAAACGTCTCAGCTCCATGAGGAGTCTGATCTGTTACTACAGATCGGTGATGCGTC
GGATGTTCTAACCGATCACATTGTGTTGGACAGTGTCTGTGATTTTTCAGGCTGGAAGAAATATCGTGTGTTGG
AATCAATCCAGGAGTAGCCCCACCGCTGGGGCTACAATCTTCTGCTCTGTTTGGCTTCTAGGGCAAAAAGACA
TCTGTATATTCTGAAGGCTTCTGTGTGACAGGAAACCAAGCCTAAGAAACAATTAAGTGGTTCTCATCTCTAAT
TAAGTGTGAAACCATTTAATCCAAACATGTAAGCACACACTCACTTATTAAGTCACATACTTTTCTAGGTGCTGG
GGATTGAGAACGAATCGATGTAAGATTCTCTTTAGGGCAGAGACAGACCCTGACAAATACACAGATAGACAA
GGAATTTCCATGGTAAAAAGGGATATCAGTAATTAGAGGACCGTGAGACTCAGAGANNNNNNNNNNNNNNNNNN
NN
ATTTTGGGTGGTCAGGGAAGTCTCAGTGAGGGAAGAATTTGTCATGAGAATCTCTGAGCGTGCCAGGCAGACTC
GGATATTTTTATAAATTTTAAATGAGGCACTTGCAAGAGCTTGAATGGGACGTGCAGGGAGAAATGGGAAGGA
TGGAGCAGGTAGCTCATCTGGCCTTGTAGGTGCCGGAACGGCAAGACATGTTTTGAAATGTAAGATCACAGAC
TGTTTTTTGCAAGACCACATTATATTACTTTATATTTTCTGCTTTTTCTTTAACGACATTAGTGTGTTTTGATC
ACTATATTTTAAATGCTTTTGTGAGCCTTTTGGTTATGTGGAATCTGTTCCTTAGCTCTGATTTTTTATTCTT
ATGGAGCGTCTTAGGTTACTACATGAAGGTAAGACTGCCACAGTCCCCAGGGAGGCACACTGTGTTTTACTGAT

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FIGURE 1886B

TGATTTGAAGATGATAGAGAGCCTAGGGGGATGAGTCTATTGGACTCAAAGGTTACATTTTGTGTTTTCCATTTAA
TTTAATAATCAACAAAACGACAAAGTCAGTTTAATATCTTTCTTCTGCTGAGTCTTCAGGATGTTAGCTAGTCTT
TCAAAAGCCATTGCTACAAAAGTGCAAATTTCTCATTTCCTGTGGGTCTCTAGAAACTCTCTCAATATTTAAAGC
CAAACAAATCCATCTTTTCTGAGAGACAGAACTAAAAAATTCAGAGTTAATTCACTATTAACAGCAAGGCC
CTGCTATTTCCCAAGAATAAAGAAATTTAAATTTCTCATTGTAAGAAGTATGAACTTGAAGCTAGAATTGGTTTA
TTTCTGGCAGCTACTTACAATATTAAGAACTTTACTTTTTAAATTTGAGACAATTCACAGGAAAGCAAGAAAT
AGTCTATTGTGAAATGTTTTTACAACCTAAGTGAATATACTGCAATCACTAGTAAGTAGAGACACATTTAAGA
TAAATGATTAATAAAACAATTGGTAATTCTGAATAAGGATCTGAATAAATCCAGATCACAGACTGTTCCCTTAC
CAATATGTAAAAGAAATGTGCAAAATTCGTAAAAATATACCCAAAAATTTACCAGCAACAGAGAAGCAAGAATGG
AGTTCAACCTTACACTATAAACATCTAATAGATATGTATGAAAATTTAAAACTAGAAAAGGTTGGGCATGGTGG
CTCATGCTTGTGATCCCCAGGACTTTAGGAGGC

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FIGURE 1887

QLRLGTRLGVGGSVACSRRETRCRGEPSSGRTFQDRNRPSAEKMSLRIDVDTNFPECVVDAGKVTLGTQQRQEMDP
RLREKQNEIILRAVCALLNSGGGIIKAEIENKGYNYERHGVGLDVPPIFRSHLDKMQKENHFLIFVKSWNTEAGV
PLATLCSNLYHRERTSTDVMSQEALAFKCRITQPTNINVSNSLGPQAAQGSVQYEGNINVSAAALFDRKRLQY
LEKLNLPETHVEFVFMFSTDVSHCVKDRLPKCVSAFANTEGGYVFFGVHDETCQVIGCEKEKIDLTSLRASIDGC
IKKLPVHHFCTQRPEIKYVLNFLEVHDKGALRGYVCAIKVEKFCCAVFAKVPSSWQVKDNVRVQLPTREWTAWMM
EADPDLSRCPEMVLQSLSLSSATPRSKPVCIHKNSECLKEQQKRYFPVFSDRVVYTPESLYKELFSQHKGLRDLIN
TEMRPFSQGILIFSQSWAVDLGLQEKQGVICDALLISQNNTPILYTIFFSKWDAGCKGYSMIVAYSLKQKLVNKGK
YTGRLCITPLVCVLNSDRKAQSVYSSYLQIYPESYNFMTPOHMEALLQSLVIVLLGFKSFLSEELGSEVLNLLTN
KQYELLSKNLRKTRSELFVHGLPGSGKTILALRIMEKIRNVFHCEPANILYICENQPLKKLVSFSSKKNICQPVTRK
TFMKNNFEBHIQHIIIDDAQNFRTEGDWYGKAKFITQTARDGPGVLWIFLDYFQTYHLSCSGLPPPSDQYPREEI
NRVVRNAGPIANYLQQVMQEARQNPPPNLPPGSLVMLYEPKWAQGCPRQLRDY

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FIGURE 1888

GTCTGAWCACC GCACTCCTCATCGTCCTCACCTACCCTGCCTGGACCTTCATCGACTGCCTGGACTCGGCCAGC
CCCCCTCTTCCCCGTGTGTGTGCATAGTTGTGCCATTCTTCTGTGTTACAATTACCCTGTTTCTGATTACTACAGC
CCAAACCCGGGCGGACACCACCACCATTTCTGGCTGCCGGGGCTGGAGTGACCATAGGATTCTGGATCAACCATTTC
TTCCAGCTTGTATCCAAGCCCGCTGAATCTCTCCCTGTTATTTCAGAACATCCCACCACTCACCACCTACATGTTA
GTTTTGGGTCTGACCAAATTTGCAGTGGGAATTGTTGATCCTCTTGGTTCGTCAGCTTGTACAAAATCTCTCA
CTGCAAGTATTATACTCATGGTTCAAGGTGGTCACCAGGAACAAGGAGGCCAGGCGGAGACTGGAGATTGAAGTG
CCTTACAAGTTTGTACCTACACATCTGTTGGCATCTGCGCTACAACCTTTGTGCCGATGCTTCACAGGTTTCTG
GGATTAMCCTTGAGTCCTCAAACAGTTGGAACTAGCCCACTGGACATGAAAGCCAAGACATAGGAAAGTTATTGGT
AGGCAAATCTTGACAACTTATTTTTCTTTAACAACAACAAAAAGTCATACGGCTGTCTTGCTACTACCAGATAAA
TGATGCTGCTGTGTGAAAGGAAAAAAAAAAAAAAAAAACTCXAGGGGGGGCCGGTAACAAATTCCCC

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FIGURE 1889

VLXTALLIVLTYPAWTFIDCLDSASPLFPVCVIVVPFFLCYNYPVSDYYSPTRADTTTILAAGAGVTIGFWINHF
FQLVSKPAESLPVIQNIPPLTTYMLVLGLTKFAVGIVLILLVRQLVQNLSLQVLYSWFKVVTRNKEARRRLEIEV
PYKFVTTYTSVGICATTFVPMLHRFLGLX

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FIGURE 1890

GACCGCTGACCTAGAGGGAGTTATGCACATGGGCTTATTAAGGTTAGCCAAGAGAAAAGGACAAGAAGACCCAAAGT
CGGCAAGCAAATTTATTAACTGCTGGGCTGCTCTACAGAAATCTGAGGAGGCAGACACCGGGCTTACAGGCTAA
GGGGTATAAGTAGGTCTGCAGGGGTTTTGTGTGTGTGTGCGGGGTGTCGGGGGGGCAAGGCCATTTGTGGAGAC
TTTTCTCCAGTATGGCCACATCCTGCAGTTTGTGAGTTTTTGCCCCGCGCTGGCTCAGGGTIACCAGGATGTGG
TTTAGCTTAGGGGTGGTTATAGTGGCACCTAAGTTCTGGGAACCTGCGGTGGGGGCGACCTTTTGGACGAAAAAT
AAGCTGCAGGGCAGCTAGGGGAGGGGGCTTGTATATTCCTCTGGGGGCAGGGTGTCCCTAACTGGGCTCAGTCG
GAAGGAACCTGACCAAAGTCTGGGCTCAGTTGGGCATCACTCAGGCTAATGGTCGTGTGCTGGATGCCATCAGAG
GGAAGTACCAATGGTAAAGTGGAACAATGTGCAGCTTTCAACTGGGTGGAGGCTGCTATTCTGTGGACAGTGAG
ATGTTTCCTTGGCACTGTCAATAGACAATCTGCGTAGAGAAATCCAAGCTGAAAGCCAATAATGTTATAATAAA
ATAGAGATTCTTCAGAAGATGAAAGGAATTACCAGCATGGAATTTGTGTCATAGGCTTAAGGGCTAAAGAAGAAG
CCTTTTCTTTTCTGTTTACCCTCACCAAGAGCACAACTTAAATAGGGCATTTTATAACCTGAACACAATTTATAT
TGGACTTAATTATTATGTGTAATATGTTTATAATCCTTTAGATCTTATAAATATGTGGTATAAGGAATGCCATAT
AATGTGCCAAAAATCTGAGTGCATTTAATTTAATGCTTGCTTATAGTGCTAAAGTTAAATGATCTTAATTCCTTG
CAATTATATATGAAAAATGACTGATTTTTCTTAAATATGTAAGTTATATAAATATATCTGTTGTACAGATTTT
AACCATAAAAACATTTTTTGAAAACCATAAA

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FIGURE 1891

TADLEGVMHMGL

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FIGURE 1892

AGCTGCAGCCACCCGCGTGC GGACGCGCGCGCCCTGCCCGGATCGCGGCCACCAGTGCCGCGGCCCTCTCGAC
TCCCGCCCCGCGAGCCGCGCGCGACTGCCATCCTCCTCAATTGCTTTTACGATTTTTTTTGTGCATGCATT
CATTTTCTGTTCCGTTTGTCTTTTTAAGGCGGTGGCGCGCGCGACAGCGCGTAAGCTCGCAGCGGGGAGGGG
GCGGCCGGAGGATGCGGCGCGGGGCTGCGCTCGCTACGTCCGCTGCTGCTGCCCGGCTCGGGCCTGAGCGCCGAG
CAGGATCCCAAGTGATGGTGGTTTCTCGAGGGCGAGCTGAGTCTGCGCGACTGGTTAGCACGGTGGAGCTGG
TAGCCACGCCTGCTGGCTGGCGTGC GTGAACAGGTGTGGACCGCAGGATCTCAGCACTCTGACCCAAGGGGAAGC
ATGTCGAAGAAAGGCCGAGCAAGGGCGAGAAGCCCGAGATGGAGACGGACGCGGTGCAGATGGCCAACGAGGAG
CTGCGGGCCAAGCTGACCAGCATTAGATCGAGTTCAGCAGGAAAAAAGCAAGGTGGGCAAACGCGCGAGCGG
CTGCAGGAGGCGAAGCTGGAGCGCGAGCAGGAGCAGCGACGGCACACGCCCTACATTTGCGAGCTCAAGGCCAAG
CTGCATGAGGAGAAGACCAAGGAGCTGCAGGCGCTGCGCGAGGGGCTCATCCGGCAGCACAGCAGGAGGCGGGC
CGCACCGCCAAGATCAAGGAGGGCGAGCTGCAGCGCTGCAGGCCACGCTGAACGTGCTGCGCGACGGCGCGGCC
GACAAGGTCAAGACGGCGCTGCTGACCGAGGCGCGAGGAGGCGCGCAGGGCCTTCGATGGAGAGCGCCTGCGG
CTGCAGCAGGAGATCCTGGAGCTCAAGGCAGCGCGCAAGCAGGCAGAGGAGGCGCTCAGTAACGTCATGCAGGCT
GACAAGACCAAGGCAGCCGACCTGCGTGCCGCTACCAGGCGCACCAAGACGAGGTGCACCGCATCAAGCGCGAG
TGCGAGCGCGACATCCGCGAGGCTGATGGATGAGATCAAGGGAAAGACCGTGTGATTCTGGCCTTGGAGAAGGAA
CTTGCGTGCGAGGCTGGGCGAGCCAGAAGCTGCTTCTGCAGAAAGAGGCTTTGGATGAGCAGCTGGTTCAAGGTC
AAGGAGGCGCGAGCGGCACCACAGTAGTCCAAAGAGAGAGCTCCCGCCCGGGATCGGGGACATGGTGGAGCTCATG
GGCGTCCAGGATCAACATATGGACGAGCGAGATGTGAGGCGATTTCAACTAAAAATTGCTGAACGTAATTCAGTG
ATACGGAAGCTGGAAGACAGAAATACGCTGTTGGCAGATGAGAGGAATGAACTGCTGAAACGCTCACGAGAGACC
GAGGTTGAGCTGAAGCCCCCTGGTGGAGAAGAACAAGCGGATGAACAAGAAGAATGAGGATCTGTTGCAGAGTATC
CAGAGGATGGAGGAGAAAAATCAAGAACCTCACGCGGGAAAAACGTGGAAATGAAAGAAAAGCTGTCAGCGCAGGCG
TCTCTGAAGCGGCATACCTCCTTGAATGACCTCAGCCTGACGAGGGATGAGCAGGAGATCGAGTTCCTGAGGCTG
CAGGTGCTGGAGCAGCAGCACGTCATTGACGACCTCTCACTGGAGAGAGAACGGCTGTTGCGCTCCAAAAGGCAT
CGAGGGAAAAAGTCTGAAACCGCCCAAGAAGCATGTTGTGGAGACATTTTTTGGATTTGATGAGGAGTCTGTGGAC
TCAGAAACGTTGTCCGAAACATCCTACAACACAGACAGGACAGACAGGACCCAGCCACGCCCGAAGAAGACTTG
GACGATGCCACAGCCCGAGAGGAGGCTGACCTGCGCTTCTGCCAGCTGACCCGGGAGTACCAGGCCCTGCAACGC
GCCTACGCCCTGCTCCAGGAGCAGGTGGGAGGCACGCTGGACGCTGAGAGGGAGGCCCGGACTCGGGAGCAGCTA
CAAGCTGATCTGCTGAGGTGTGAGGCCAAAATCGAAGATTTGGAGAAGTTACTGGTTGAGAAGGGACAGGATTCC
AAGTGGGTTGAAGAGAAGCAGCTGCTCATCAGAACAAACCAAGACTTGCTGGAAAAGATTTACAGACTGGAAATG
GAAGAGAACCAGCTGAAGAATGAAATGCAAGACGCCAAGGATCAGAACGAGCTGTTAGAATTCAGAGTGCTAGAA
CTCGAAGTAAGAGACTCTATCTGTTGTAAACTCTCAAACGGAGCAGACATTCTCTTTGAACCCAAACTGAAATTC
ATGTAAAGCTCTCAGATGTTTTCAAGCATGTGTAAAGGGGACATGTTATAGTTTCTTTCTTTCTTTCTTTT
TTTTTTTAAATCTGTATGTTTCAAGATAATTTCACTGCCTTAATGTGTTCTGGAGAGCGTGCTACCCCAAGTCTAT
GGACATGTACCAGAGCTAATATATTTATGCTATGGCTTGTTTTGCACTTAATAAAATAATTGTTTTTGC

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FIGURE 1893

MSKKGRSKGEKPEMETDAVQMANEELRAKLTSIQIEFQQEKSXVGLRERLQEAKLEREQEQRHTAYISELKAK
LHEEKTKEQLALREGLIRQHEQEAARTAKIKEGELQRLQATLNVLRDGAADKVKTALLTEAREEARRAFDGERLR
LQQEILELKAARKQAEALSNCMQADKTKAADLRAAYQAHQDEVHRIKRECEIRRLMDEIKGKDRVILALEKE
LGVQAGQTQKLLLQKEALDEQLVQVKEAERHHSSPKRELPPGIGDMVELMGVQDQHMDERDVRRFQLKIAELNSV
IRKLEDRNTLLADERNELKRSRETEVQLKPLVEKNKRMNKKNEDLLQSIQRMEEKIKNLTRENVEMKEKLSAQA
SLKRHTSLNDLSLTRDEQEIEFLRLQVLEQQHVIDDLSELERERLLRSKRHRGKSLKPPKKHVETFFGFDEESVD
SETLSETSYNTDRTDRTPATPEEDLDDATAREEADLRFCQLTREYQALQRAYALLQEQVGGTLDAREARTREQL
QADLLRCQAKIEDLEKLLVEKGQDSKWVEEKQLLIRTNQDLLEKIYRLEMEENQLKNEMQDAKDQNELLEFRVLE
LEVDSICCKLSNGADILFEPKLKFM

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FIGURE 1894

CTTCAGACTCAAGACTGCAACACCGTGCCTGCCCTCTAGCTATGCTTTAAGGCAGGCCTATCAGCCCAGACTGGA
GTCATGTAATACATGGCTCTGTCTAGTCTCTCCTTCCCACAAATAAGTTTTGATGATCTTACACTCATCCCTGC
CGTTAGCATTTCAGGACCAATCTTCTATAGCCTATACGCCACACTGGTCTAGGACAGCACCTAAATAATACTCATG
CTATAAAAAAATTCATCAAGTTATATATTTTTAAAAACATCCCTAAAATTATCTTTTTCTTTACTGAAAAGAATT
TCAGGATCCCCTCTCTCTCACTGCCTCTCTTACACACACCTACCTTAGTTGGTCACCTATTTGTAAACATATC
TTCTTTAAAAAAGAAAGAAATGGCAGTACATGAAAACTGCTTCGTAAACAGAACTATATTATTTATATTTGT
AGCATTTTTTTCCCTTGAGGTTAATTCCTTTGCTTCCCATAACTGGAAGCCAATGATTCACTGCCATTATATA
AGCTTATTTTCCCTCTTGGAATAGTAAATTATAAGAGGTTTGACCCAAAAATATACATCAAATTAGGCAGTAT
TCGGTGTITAGCCTCCATCTGCCTTGTCTTCTTGTCTTTAGTTGTGCAAGTAGATGCTGATGATTTCTGGCAGAG
CTAAAGTAAGTAAATCATGTGAATTTATTTTTTCTCATAAACAGATGGCATGGTCTAGCTCTGGGCTTGTA
TGTTTCATGAAGTACATGGGTCTGAGTGGGTATTTATTTGTGAGCCAAGGTTTATGCCTTCTTCTATAATTTTC
TTTACCAGAAATACCTGGAGAGCTAGAACTCCATTTGTGTGAGCGTAAGAAGCTTTAGAACTCTATATCCAGA
CCAAGGCCATGGAACAATGTAGATTCAGTCACTAGTCACTAGCGGCCTTCTTTGTACTAGTCTGTCACTT
TGCTTGGCTTTGGGAAGCTTCAAACCTAGGGCAGTTTATTTGGGAGTGACCAAGTCAAATAGCAAGACAGACATA
GGCAAGGATGTAATTTTTAAAAATTTAAGTGGGGAATGGTGAAGCATGAATCAAAACAGAAGGTAGTCTTACCTT
CTTGAAGTGTAAAAATAACATTTGAAAAAGGCACCTCTCAACCTTCTGCGAGTCAGAAATTTTGTGCCAC
CCCTCATTTTGAATCTCTATTCTGCATTTTATTCTTTTTTTTAGGAAGGAGGAAGAAAAATTTCTCCTGAAGA
ATTCATTGGAAATTAATACTTGCATTTTGTATTCTTTGGAATGTGATGAAGACTGATTGAAAGGGCAG
TGCTGGATTTGGTCAGGCATAGGAAAGGAAGACATGCAGTCGTCTGCCTAGCTCATCCCCGCCACGATGGAGAA
GTGGGGTTGCTTTTCTGTACTTTTTTTTCAATTTGTTTCTTGCCAAGCCCAGTGGCTTCTGTTATAACATGTGGCA
GCTTCTCCCTTGGAGACTGATTCACTCCAGTTACCATATAATTTAGGACCAGCTACAGAGACGTTTCTTCCCCT
AAACCCATGCCAAATCTAAATCAAACATCTTCTTCTCCTTAGCCGTTCAAATAGCTCCAGCTCTTATATAAAAA
TACGAGAAATACACAGGCCTCTTTTTCGTTTTATTCTGTTCAAACAGATAAACAAACAAGGCACATCATGCCTAG
GTTGCTTTGAGCTTGATCACTTCTCTCTAAAGCAGTCTTACGCTGTGTTGATTTTAAGAATTGCAACTTAGGTGT
TCTAGAACATATTCTGAGAGCATAGTCATAGTCTGTGATCTCAGAATATGTTTGCTTCTTCTAGAACATCTGAG
TTCTAGAAATTGCGTACAATAAACTGCTGTGAGTGTGCTGGAGGAAGGAAGAGTAACTCTGACATCACTGGCCT
TCAACAGGTGTGGCGCTGAGCTTCTGGGCCTCAGAAGCCCTGACTTCTAGAGGCTGGGGGCCAGCGGGCAGGGA
GGTGATCTCATATGGATGGCCACAGATCATCCACCTGCCAAACAGTTAACCCCTGAACAAGTCATGTCAATTTAT
TTTGCTTTTAAAAAAGAAAGTCTGCAAAATAGAAAAAAGATTCTTCATAAATACATTTGTTCTGATCT
GTAATACCCCTGGTCATTTCCCCCTTGGCATTGATACACATAGTATAGACATATTTTAGTCATCCTTGCTCAAG
TAATTATATTCCATAACCAACTTTATTAGCATAAATTAACCTCCTCATATTTTAGCAAGAGTTACTTTCCTTCA
TTGCTTAGCTTATTGTTTTGAAATATGAATTACTTCAGCACAGTTCATTTTT

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FIGURE 1895

FRLKTATPCLPSSYALRQAYQPRLESCNTWLCQ

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FIGURE 1896

AGCCGGGTCTCGCCAGTCTCGCCCGGTGTCGTCCCCGGCCGGTGGCTAGTGGGGGTACTGTGGTAGCGGAGCCGG
GCTGTGCTAGCGGGCTGGGTAGCTCGAGGCTTCCCTAGGCGGTCTGCAGGTCTGGGAGGGACGCTGGGTATGGGC
CGTATGAGCGGGGCGGGCGGACTGCTATGAGCCCGGCGAGTCGCCGCCAGGGACCTGCCACCCGGATCCCA
CCTTCCAGGAGGACGGACGTCACCCAGACGCTCGCAACTCCGGTCTCTTGACAGCGCAGCCTTCCACAGGCTCGA
ATTTTAAAGACTTGACATAAAGTCTCCGGAATTCCAGATTATTAAGTGACCCCTCATTTCACCCGGCAAAAC
TTCTCACCCAGTGTCATAAGATTGATAGCGATCTCCAGAACTTGGACTGGAATGCTCCTACACTGAGGGGA
TGGGGGAAGAAGAAATGCTAAAGATTATTTAGAGTTACAGAAATCCTGTTGAAATTCCAATGCATCGTTTACT
CTTAGCGCTGGGGCTTACAGTTTTTTTTTAAAGTTGAAATATTTACAAAATTTCCCATAGGGTGAAATCCAGAG
TTAATCCAAAACCAGAATCTTTTAAATTAAGTACATTCAAATGTGCAGATTCTTAAACCTCATTTAGTTGAGC
TTTGATAGGTGAAACGCACGTTTTGAACAACCTCGGTAACAAAGAAAAACATTAAATTGATTATAGGTATGTTAT
ATTTAAAGACCAGTTGTGAAATTAGCTATATTGTGCTCAAAGTATGTTACTGACATTTCTCCGTCGTTAAAAGGA
ACTGCTCCATTCTAGTTTTTTATAATAGTCTGTATTATGTATATAGCCTGATAGTGCTGAATTTCTGAATTGACC
TTCATCTTATTTACTCAATAATATTCATTTGACAAATACTTATTAAGTGCATATATGTGTCAGGAACGTACTAG
ATGCTGAGGATATAGCAGTAAGCGCAACAGACCAAGCTAACAGCTTAGTAAAGGGTGAGGTAAAACAAAACAAA
AAGTATTCAAAAAATAAACTAATTTTTATCTTAATTTAAAAAATTACAAATTTTTAAAAATCACAAATTGGTAT
CCATGTATAATTCAATTCGGTGCATTTCTTGTGTGAAGAAAGCTCAGTAAAAGTATTTCTTAGGTTTCTGTAAT
TCTAGTTCTCTACTCGATTTTCTTCTGCAATTTCTGAGCCAGAACCCTTCTTAGAAGGCATATTAGAGACTTTA
AAAGTTAAATAATAAAATAAATCTCTTCTTTAAACAGC

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FIGURE 1897

MSGAGATAMSPAGVAAQGPATRIPPSRRTDVTQTLATPVS

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FIGURE 1898A

GGGGGGGCTCGTGCGTTCTGCGCCCGCCGCGGGTGCCGAGCCCGCTGGCTCCCGATTGTCTCTGCGGCGGTG
GCGGTGCGTGCCTCCTTGCCCTCCGGGCGCGGGGCTGCAGGGGCCAGAGCGAGTGCGCCTCCTGCCCCGCGACCGC
GGCAGCCCAGAGCAGAAACGGCTTACAAAATATACAGATCTTGGTAGACAACGTGGCTGCAGGCTGTTGAATTGG
AATTCCTGTGGCTGTCCGAAGGCAGGGTGTCGGGAGAGCGGTGGGCTGACCTGTTCTACACCTTGCATCATGC
CAGCTTTGTCAACGGGATCTGGGAGTGACACTGGTCTGTATGAGCTGTTGGCTGCTCTGCCAGCCCAGCTGCAGC
CACATGTGGATAGCCAGGAAGACCTGACCTTCCTCTGGGATATGTTTGGTGAAAAAGCCTGCATTTCATTGGTAA
AGATTTCATGAAAACTACTACTATGAGAAGCAGAGTCCGGTGCCCATTCCTCATGGTGCGGCGGCCTTGGCCG
ATGATCTGGCCGAAGAGCTTCAGAACAAGCCATTAAACAGTGAGATCAGAGAGCTGTTGAACTACTGTCAAAAC
CCAATGTGAAGGCTTTGCTCTCTGTACATGATACTGTGGCTCAGAAGAATTACGACCCAGTGTTCCTCCTATGC
CTGAAGATATTGACGATGAGGAAGACTCAGTAAAAATAATCCGTCTGGTCAAAAATAGAGAACCCTGGGAGCTA
CCATTAAGAAGGATGAACAGACCGGGGCGATCATTGTGGCCAGAATCATGAGAGGAGGAGCTGCAGATAGAAGTG
GTCTTATTCATGTTGGTGATGAACTTAGGGAAGTCAACGGGATACCACTGGAGGATAAAAGGCCTGAGGAAATAA
TACAGATTTTGGCTCAGTCTCAGGGAGCAATTACATTTAAGATTATACCCGGCAGCAAGAGGAGACACCATCAA
AAGAAGGCAAGATGTTTATCAAAGCCCTCTTTGACTATAATCCTAATGAGGATAAGGCAATTCATGTAAGGAAG
CTGGGCTTTCTTTCAAAAAGGGAGATATTCTTCAGATTATGAGCCAAGATGATGCAACTTGGTGGCAAGCGAAAC
ACGAAGCTGATGCCAACCCAGGGCAGGCTTGATCCCTCAAAGCATTTCAGGAAAGGAGATTGGCTTTGAGAC
GACCAGAAATATTGGTTTCAGCCCTGAAAGTTTCCAACAGGAAATCATCTGGTTTTAGAAAAAGTTTTCTGTCTTA
GTAGAAAAGATAAGAAAACAAATAATCCATGTATGAATGCAAGAAGAGTGATCAGTACGACACAGCTGACGTAC
CCACATACGAAGAAGTGACACCGTATCGGCGCAAACTAATGAAAAATACAGACTCGTTGTCTTGGTTGGTCCCG
TGGGAGTAGGGCTGAATGAACTGAAACGAAAGCTGCTGATCAGTGACACCCAGCACTATGGCGTGACAGTGCCCC
ATACCACCAGAGCAAGAAGAAGCCAGGAGAGTGATGGTGTGAATACATTTTCATTTCCAAGCATTGTTTGTGAGA
CAGATGTACAAAATAACAAGTTTATTGAATATGGAGAATATAAAAACACTACTACGGCACAAGTATAGACTCAG
TTCGGTCTGTCTTGCTAAAAACAAAGTTTGTGTTGTGGATGTTTCAGCCTCATACAGTAAGCATTAAGGACAC
TAGAATTTAAGCCCTATGTGATATTTATAAAGCCTCCATCAATAGAGCGTTTGAGAGAAACAAGAAAAAATGCAA
AGATTATTTCAAGCAGAGATGACCAAGGTGCTGCAAAACCCTTCACAGAAGAAGATTTTCAAGAAATGATTAAAT
CTGCACAGATAATGAAAGTCAATATGGTCATCTTTTGACAAAATTATAATAAATGATGACCTCACTGTGGCAT
TCAATGAGCTCAAAACAACCTTTTGACAAAATTAGAGACAGAGACCCATTGGGTGCCAGTGAGCTGGTTACATTCA
AACTAAGAGAAATTTCCATAATTGTCTTTTCTATAGAGTGATGATGAAATCAATTACAGTTTTGGTAGTAGGG
TTTTTAAATCTATACCTGTCTATAGTGTACAACTCTTGTTTCAAGTTGAATGCTGGTTTTGTTGTATCTTTTT
ACAGCCTTATTTCAACGCCATGTGTTAGTATAAGATCCGAAATCAAAATATGCACAGTACTGTATTCTAAGCAA
AACCTCAAACCTTCTCGTTGTCTTCAATACCGCTCTATCTCCAAGATGAGGCTGAAATTTTCAGAGAGACTTAGC
TAGAGGCTTAGTATGTATGGGAGTTTCAGCGCTTCGCTGGTCTCAGGTGTGGCTGCTGCTGTGCGAGTTTGAATGT
TAGCTGTTGAAGGTATCAATTCAGCAGCCATGAGCAGCTCCAGACAGACAGGTGAGCTCTGCTGTTTCTGGGTGG
ATCATCACAGATTTAGCCGGGCAGGCAGTAAGGTGTCCTCTTACTATTCAAAAAGTGAGACTTTCTTACATATT
CGCAATACGTTTCAGTGTGTGCATTTTTAAAAATAATTCTTAAAGGAGTAAGTAAATTTTACCTTGAGTGAATGG
CCTTCATAATATAGCTTGAGAAGTCCTTTTGAGTACCTGTGAGTCAACACATTTAATAAGGGAAAGTAGA
CTTTTAAACAGTTATTATATATGTAACGAAAAGCCTTTCTTTGGGATTAAATATAAGTAAGAATGGTAGCCTTGTG
GCAAGAAATGATTACAAAGGATATTTTTATTGTAATTCCTCAGAAGACAATTTATGAAGTACCCCAAAATGTTA
TTTTAGCTGGTTTTGGATTTTTCCAATAAATTAGAAGAAGGATTTCTATTCTAAAAACATGTAAACCTGTTTTAC
ATATTACTGATACAATTAAAGATTATTTTTCATCTATGTGCAATAGATCACCCCTCTTTAAATGCTCTAAGATT
TATTTTAGAAAACCTTTTCATGTGATGTTATTTCTTTGTCTCAAAATGCTTGTAACTGTCCAGACACCATCC
TAACCTTGCCATTGTTAAAGAAGTTTAGGAAAGACTCTTATATTGTAAATATTTAGATGGGTCTCTCACTTTTC
TTTGATIACTACTGATTTTCAGCAAGTGAATTATATAATTCAAAATGCTAGAAATGTCTATCCGTTCTATAAGAGA
GCATATCCTGCCGTTCTTGATGCAGTGAAGCCCTGCCGTCGAAAATCATTGCATCTGTGACTTTCAAAGTGGA
AAAAAAATGTTATTTTTTTGTTGATTTGTAAAGAGAGTTTAAATGTCTGTGAAAAAAATAGAATGTAGTAAA
ATTCTATATATTTATGAAATATTTTAAAGGCATATTTTTTAAATATCAAACGGGGCTATTCAAAAATAAAGTG
ATTGTATGTCAAGATGTCCTAATTTAAAGAGTAGTTTTATAAATCATGGTCAACATTCATGTAAATATTTGAG
CTTTACAAAGATAGATCCAAGTGTGCGATCTGTGCACTGCACATTTGATAGCATTATTCAGTGGTTTTCTCTCAT

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FIGURE 1898B

ACTTGTCAAGTTCATATTAGAAGCAGAGACAAAAACCACTCCAATGGCCTTGACACATAGTCACACCAAAATAGA
TAATCAGACTAAGTATTATATAACAACGTGATCCAGACAGTGAGTTCTAAGTGTATTAATTAAATAGCAAAAAAT
TTTGTTTTTAAAAATGAAAGAGGGAGGGTTGCCAACCTGAAGTCTTAAGTAGATTGTTTGGGTAGCATATTTCC
TTCTTTGAACATTGCTCTGAAATTTCTATAAATCAAGACTTCTTGTACAAAGAATGATGGGACATATGTAATAAT
TCAGGCAATCACCTGAGTAATTTAGGCAGTCCAAATTCCTTTACCCTGAAATACCCACATTTTAAAAAATTGCAG
ATAATTGCTTCAGTTATTTACTTTGGGGACAGAGATATAGTGTAAAGTGGGAGAACTGAGTCCTTTTTTGGTGG
TGGTAATAATAAGATGTTATAAAAAATATAACATTTTAAAAAAGAAAGGTCCAGACCTTAAGCGCAGAGCTAGAAC
AATATTTTTTAAATAATGGGGGAAAAGGGGGCACTTTGGTAATTTTAGAAATCAGGTAGTATACNNNNNNNNNN
NN
NNNGGTAGACGTGGTCTTAAAAACAGTGTTT
ACATGGCCATCTTGATGCTTAGAAAGATAATTGATTAAAAATTTAATAAGGCAGGGCCAACTCCGAGAGTTCATTG
ACAACGGCAGCAAAAAGGCCCTGAATTCGTACTTCTTCCCCAGCCTCCTTCTCCAGCAAGGAGAATAGCACT
CCTCCCTCCAGAAGCCAGCTCCCTAAGTTGGAGCCACTATGTAAGAGAAGAGGAACGTTCACTTTTTTAAATTC
TATATTTAAAAATCAAGACCAAAAAGTAAATTCGTACTCCTATTATTGACTGTAGTCAATCAAACATAAAAAAGG
TGAAAGTAAATTTAATTTTTTACCCTTATTTTACTGACCAATATGGAAGTCTTGGTATCTTTAAGGCTGACCT
TCCTGGTATTGTGTAATGATTGAATGTATCTAACTGTAATAATTTGAACTGACAAACATAACCTTCTCAGACT
TACAAACTATGTTCTTTCTAAAGATACAGATTTTTATTATTTTATTGACTAGGAAGGATTTATAAATAAATG
TAATGAAAAATCTTTGATCTTAATAAAGTACCTTCAAACAGTGTGTACTTACTTGAAAAATTGTTTTTGCACCT
GGATATTCTATTTTATTATACTACTATTGTGATCTATTCATTATACTATTTCCCATGGTAGAACAAATTATATT
TTCTACTGTGATATGAAGTGATGTAATTGAACTTGCCATGTCTAAAATTAAATTTTCATATTTTTTTC

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FIGURE 1899

MPALSTGSGSDTGLYELLAALPAQLQPHVDSQEDLTFLWDMFGEKSLHSLVKIHEKLHYYEKQSPVPILHGAAAL
ADDLAEELQNKPLNSEIRELLKLLSKPNVKALLSVHDTVAQKNYDPVLPMPEDIDDEEDSVKIIRLVKNREPLG
ATIKKDEQTGAIIVARIMRGGAADRSGLIHVGDELREVNIGIPVEDKRPEEIIQILAQSQGAIITFKIIPGSKEETP
SKEGKMF IKALFDYNPNEDKAIPCKEAGLSFKKGDILQIMSQDDATWWQAKHEADANPRAGLIPSKHFQERRLAL
RRPEILVQPLKVSNRKSSGFRKSFRLSRKDKKTINKSMYECKKSDQYDTADVPTYEEVTPYRRQTNEKYRLVVLVG
PVGVLNELKRKLLISDTQHYGVTVPHTTRARRSQESDGEYIFISKHLFETDVQNNKFIEYGEYKNNYYGTSID
SVRSVLAKNKVCLLDVQPHTVKHLRTLEFKPYVIFIKPPSIERLRETRKNAKIISSRDDQGAAKPFTTEEDFQEMI
KSAQIMESQYGHLEFDKIIINDDLTVAFNELKTTFDKLETETHWVPVSWLHS

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FIGURE 1900

GTCTTGGTTATTCTTGGTTCTTTATTATTCAATATAAAATTTTAGAAGCTGAATTTGAAAAGATTTGGATTGGAAT
TTCATTAAATCTACAGGTCAATTTAGGGAGAGTTGATAATTTTACAGAATTGAGTCATCTGGTGTTC AATAAGA
ATAAGAGAACAATTATTGGCTGTACAATTCTTGCCAAATAGTAGGCAAAGCAAAGCTTAGGAAGTATACTGGTGC
CATTTTCAGGAACAAAGCTAGGTGCGAATATTTTGTCTTTCTGAATCATGATGCTGTAAGTTCTAAAGTGATTTT
TCCTCTTGGCTTTGGACACATGGTGTTTAATTACCTACTGCTGACTATCCACAAACAGAAAGAGACTGGTCATGC
CCCACAGGGTTGGGGTATCCAAGATAATGGAGCGAGGCTCTCATGTGTCCTAGGTTACACACCGAAAAATCCACAG
TTTATTCTGTGAAGAAAGGAGGCTATGTTTATGATACAGACTGTGATATTTTATCATAGCCTATTCTGGTATCA
TGTGCAAAGCTATAAATGAAAAACACAGGAACCTGGCATGTGAGTCATTGCTCCCCCTAAATGACAATTAATAA
GGAAGGAACATTGAGACAGAATAAAATGATCCCCTTCTGGGTTTAATTTAGAAAGTTCCATAATTAGGTTTAATA
GAAATAAATGTAAATTTCTATGATTAAAAATAAATTAGCACATTTAGGGATACACAAATTATAAATCATTCTTA
AATGCTAAAAACAAGCTCAGGTTTTTTTTCAGAAGAAAGTTTAATTTTTTTCTTTAGTGGAAGATATCACTCTG
ACGGAAAGTTTTGATGTGAGGGGCGGATGACTATAAAGTGGGCATCTTCCCCACAGGAAGATGTTTCCATCTGT
GGGTGAGAGGTGCCACCGCAGCTAGGGCAGGTTACATGTGCCCTGTGTGTGGTAGGACTTGGAGAGTGATCTTT
ATCAACGTTTTTATTTAAAGACTATCTAATAAAACACAAAACCTATGATGTTTACAGGAAAAAAGAAT

REPLACEMENT SHEET

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FIGURE 1901

MFTGKKE

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FIGURE 1902

TACGAACCCTGAGGGCCTACTTGGCTAGGTGCTCACGGTCTGGTAGAGGAGACAAAGATACAAAAACAGAGTCAC
AGTGTGTAATGAGTGCCATGGGAGCATAAAAACAGCATGCGCAGGGCTTGTGACACTCAACCGCCACCCCGCGCA
GCTTCCAATGGAGGCAAAGTCACAATTGACCCCAATAGACAGGCTTGACAGAGTTAGTTGGATGGGAGGCAGGTG
GGGCAGCCTGTCCAGAGGCGCAGACCTGTGTGTGTGGGAAGGGGTGATGGGAGATGCAGACTCGGCAGTGCTTG
TTAACAGAGGTGTGAATGCCGCGCCTTGCTTGCTGAAGATTTCCACCCAGGATCCTGACAAAAGTCAGATGTGC
ACTTCAGAAAGGCCAGGCGGGCTGCAGTGAAGAGAATGACTCGAGGGGTGCGGGTGTGGGACAGGCCATCGAGG
CAAGGAGGCCAAATGGAAAGCTTTGGTCAGGACACAGGTGGTGTGATGGATTCGGGGGAGAAATGGGGGAGGGTGAC
GCAGGCAGAGTGGCCAGGTTATCAAGTGGCATCATTACCCACAAAATGCAGCCTTATGGCTGACGAGCTACCTTA
CTGAGCATATTCTGCCTCTACACCAGAGACTCACTCTGTGGTCCGGTGTACCTCGATTCTAAATTCCTTGCTT
CCTGGTGAATGATGTATCACACTTTAGAAACCTGGCCAATAAATGCTTTGAAATTTAAGGATAGCTATCCTGAA
AAAATTTAATATAACCTAAATTGATAGTCTAATGACATCAGTATTGAGAAGAGGCATTCTATTTCAGCAAGTGGT
TTTCAGAAAAAATAAGTAACCTGAGTTTTTCTCCTGCCACTCTCCCTCTTGCTTTTATGCTGCAAAA
AGAGCTTGTGGCTTGCTGACACACCGTGTGTCTCTGCTTCGAAGATCTAGCTCCCTCAGCCTCCCCACGTT
GTCCACCTCTCCAATACCATTGCTCCACTGGGAAGCTGGCCCGGAGGTGCTTACCACGTTTCATCTCTCGCAGCC
CAGGGCTGTCTTTAACGTTACAGNGACNCAGATNTCAAAGNNTTGCAATTTATTTGGCTTTTATTAATTTGCCGG
AAGCAAGGGAGGGTAGATACAAAGTACTCCTCTACCTGTATTTCCTTGCTGTTAAAATGTAAAGAAGACTG
ATGTAAGAATCTCTGCTTCCACCACTATAACCATGGTATGCACAGAGCTTATGAATCATCTTCTAAATTCACA
GCTAGTTTTAAAATTTAGCTTCCAGGCTAGATCTGCAGGAATGATTGGGAGATCGTAAGTGTATGGAGTGAAT
ATGAAGTTACTTACCAGATCCCATAAAGTTAGCTCAGGGAATCCTGAGGAAGGTGTCACTCAGAAAGCTGCTTTC
AAAGCTGAGTCAGACCTGCATGGTGTATTACCTCCATTGTGTTACCATGCCAAACATATAAATAGCTTCAAAG
TGAGTTGAGATTAACACAGAAAAATCTTTGGATATATTACAGGCCAGTGGGGGTGATGTAACAAGTCAGCAA
GGAAAAATAAAGATATTTGAGGTACAGCCTCAACTTTTTAAGATGGATCTTGAATAAAAAGGTCTAATGAAATAT
TTTATGGTATTGCTCTCTGGGATTTAAAAAACAAAGCCAAACCAAAACGAGGCACTGGAACATGTTTAGATA
GATCAGGGGTGTTTTCCAGTATGCATTTTTTAGTGCACTTACTTAACTGAGACCCTCTCATATGAACTGGAATG
TCACCACCATGTGATAAAGCGTAGACTAGCTGTGACCTAATACGTACTGATCATGACTAACGCAGAAGTCCAGGT
CACTGCGGTTGTATTTCTGTGGCCTCAATGTTCTGGGGTTAGGGTTAACAGGGATAATTCAATTTCTGTGTTCAA
GTCTCTAATTTCTCCATCATGTAACTGTAAGTGGGAGCAGACTGGATTGAGCATTGCTACAAGAGAAAAACAAC
AAATAGGAACACCACCAACACCATGTGTTGGGAGCCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NN
NN
NNNNNNNACTTTTCATAAATAAATGACTCGTGTGGAGGTGTTTGTATCCTTGGGGCCACTCAGTTTTATTTCAGC
CAGCTTTCCTTGTTGTGGTTTTTAATGTGTTAGGGAAGAATGAATGTATTCCCCACAGCTGGGCATCTTTGTGCT
GGATCACCTGGCCACAGCTCATGAATAGTGCAGATTATCACACCCACCCCATGACTCCAGCAAATGTGCTGTG
GGTATAGGAGAGTATATTCAAAAAAGGCAATTAACAAAGCAACTGTCCCACTACCAAGAAAAACAATGTGGCA
TAACCCATGATAGAACCCTCTTTTTCTTATTAGACATGAACAGAAGCTCATTAAATGCCGTCCAGTAAGTCAA
GCCGCATAACTTACATACACTGTCAGGACCCAGAAAGAAACCTGTTGCTTGTGATGTTATTGTTGCTTGGTTGA
CCTCATCATGT

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FIGURE 1903

RTLRLAYLARCSRSGRGDKDTKTESQCVMSAMGA

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FIGURE 1904

GCTGGCCTTTGGCTTTTTTATGTAGAAAAGGAACCTATTGAAAAGATACTGATTGGTTCCAATAACTGCTAGAAAGT
TTCTGCAAAACCATGCTTTGAAAGTGAGCAGGAAAAGAAGAGACTAGGCTGTGGCTGGGAGCACAGCCAAAATTA
CAAAACCAGCCCAGGGATGATGATCCTGTTCATGCACAGCCACTGTCCCCAGCACTAGGCACAGACTCTACCACT
GCCTCACTGTCTCTGCTGGACTTGGAACCTTGATATTACTGTTACTGCTGCACTGTCTGNCATGNAAATGNGTTG
TCCAGGGTCCCTTCTTCATCCTTTTCATCTCTAGCTTATAATTCAAAGTCTGGGATTGAGTGGCCAATCCTAGGTC
ACATGTCCATGTCTATCTCCAAGGGGGGCTGGGAATTGAATATCTGGCATTITTCACITTTCACTTCTTATGAAT
TAAGGAATTCTACAAATAATAGAAGTGGGATTCAGGTGGTAGGCAGACAAAAAGCCTCACAATTATCCACTACG
CCACCCTTGATAACCTTACCCTCATTCACTGTCTACTCTCAAAACTGTGGAGCTACTAAATGAAGATTTGTAAAC
CCTGGGCTTATGAGCACCATTCTTTACTACAACCTCAGATTGCTCTAGAAGCTCAGTTCCCAGCACTTGGATTT
TTCCAGTAGCTGAATTCTACCTGAAGGAAGGGCAGAAACAAAGGGTGAAGAAGAGGCTATCACTTCCAAGTATCC
TGCACCCCTGGGCTCAAGACCTCACTGGGGAGGGAGTCTTTTGGGCCACCCACCAACAGCACTGGCATTATGCC
TCTCACCCTTAGACCATGGTTACACGTGGTAAAACAACCCCTTCTGGTGATACATTACAACTCTCTAGTTTCCCC
CAAATGGCACTATGGGGAGCGGGAGCTTGCCCTTTTCTCAGACTTAAAACAATAAGTTTCCCCGTGTTTCCCT
CTAATGCTGTTTTCTTTTGACCAAGCATGTCTGAATTCTAGAGAAGTCAGGAGGAACACACCCATTCTCGGTTTG
AAGGGACTGATGTTCTGAAGTACAACCTGGGCACAGTCCCAGGCTCTTCAGGACGCTTCTCCATTACACAGCGG
GGATGTGATTGTTACAGCGGTGGTGTGTGCTGGCTGAGAAGCCACTGTGAATTGATTCTTCTTCTGAAGTTTAT
GTTTCTACTTTTTGGAAATGAATAAAATTACAGCCAGTCCATCAAGGAAATTGC

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FIGURE 1905

MKICKPWAYEHPFLYNSDCSRSSVPSTWIFFVAEFYLKEGQQRVKKRLSLPSILHPWAQDLTGEGVFWATHQT
ALALCLSP

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FIGURE 1906A

CAGATCCATGTTTACTAGCGGCCTTACAGAAAGTACTCAAAAAGAAGTTTGAATAGTTGGTGTGAAGCTGAATC
GATGGATTTAGTGTGAAGTATGCCTTACTTCCAGAGTTATTTCTTACAGAGGCCAATGTTCAAGCCTTGTTCAC
TGCAGCTAGCATCTTCCAGATTCCCTTCCATCCAAGACCAATGTGCTAAGTATATGATCAGTCATTGGACCCACA
GAATTTCTATTGGGGTCTTTATCTTTGCTGATCATTATGGTCATCAGGAACCTCGGAGATCGATCAAAAAGAATACAT
TCGTA AAAAGTTTCTGTGTGTACACAAAGAACAAGAGTTTCTCCAGTTGACAAAAGACCAACTGATAAGTATACT
AGACAGTGACGATTTAAATGTAGACCGAGAAGAGCATGTTTATGAAAGCATTATAAGGTGGTTTGAGCATGAACA
GAATGAAAGAGAAGTGCACCTTCCAGAAATTTTGTCTAAATGCATACGTTTTCTCTGTATGGAAGTACCTTTAT
AGAGAAAATTCACCTCAGTTTGACAGGCTATAGCCAAAAGCTGTGTAGAAAAGGGACCATCCAACACCAATGG
CTGTACACAGAGGCTTGGAAATGACTGCTTCTGAAATGATCATATGTTTTGATGCTGCCACAAACACTCAGGAAA
GAAGCAAACAGTGCCTTGTCTAGATATAGTCACAGGAAGGGTGTAAACTATGCAAACCACCAATGACCTGAG
AGAAGTTGGGATCTTGTATCACCAGATAATGACATTTACATTTGACAGGAGGTACAGGCCAAGCAGCAGTGAGGT
CTCCATCGACCATAAGGCAGAAAATGATTTCTGGATGTATGATCATTTCCACCAATAGATGGCTATCCAAACCATC
CTTGCTTCGAGCCAGAATAGGCTGCAAACCTTGTCTATTGCTGTGGTAAAATGTATGCAATCGGAGGTCTGTGTTA
TGAAGGTGATGGGAGAACTCACTAAAATCTGTTGAGTGCTACGACAGTAGAGAGAATTGTTGGACGACTGTTTG
CGCGATGCCAGTTGCAATGGAATTCATAATGCTGTGGAGTACAAAGAGAAGATCTATGTTTTACAGGGAGAATT
TTTTCTCTTCTATGAGCCTCAAAAAGACTACTGGGGTTTTCTTAACCCCATGACTGTGCCTAGAATCCAGGGCTT
AGCAGCTGTATACAAGGACTCTATCTACTACATAGCTGGAACCTGTGGAATCATCAACGTATGTTTACTGTAGA
AGCCTATGATATTGAGCTAAATAAATGGACTCGTAAGAAAGACTTTCCATGTGATCAGTCCATAAATCCATACCT
TAAACTGGTACTTTTCCAGAACAACTCCATTTATTTGTTTCGAGCTACTCAAGTGACTGTTGAAGAACACGTCTT
CAGAACCAGCAGAAAAAATTCCTTTACCAATATGATGACATTGCTGACCAGTGGAATGAAAGTGATGAGACCCC
AGATCGGCTCTGGGACCTTGGCCGGCATTTTGAATGTGCTGTTGCTAAACTGTATCCTCAGTGTCTTCAGAAAGT
ACTCTAAATGAGTAGCAGGCCTTAGTGATCAGTGGCATCTCATTCTTAGGAAACTTGTCTTTGATACAAAAGAG
TGCTGACAGTATTTCAGAAAGCTGAGAGAGTTTTATACATGGAATGGGTATGCTTAAAGATTGCAGGGTAGGG
AGGGATTTTCCTTCATCCTTGTGACATTTCAATTCAGTAAGGAAAAGATAACAAAGTGCAATTATCAGCATTTTT
TTTTCTGGCATAAAATTAATCATTTTCAATTTATAATTTTGTGATAAATAGTAAGTACCAGATGAATCAG
GACAACTATGCACCTCTTATAAGAGCATTAGGGTATTATTGGGTAAAGACGTCTAAACTTGTGATGTGACTTT
TAATTTTAAATACGGGTAAACAATCTGAGGCAATATCACTAGGACTTTAGCTGTGACCTCTCTAACACAGAGAAGC
ACTAATCTAGATCCTCATTCTTAATATTATATGATCTATTTTTGTGTACTGTTTTCAAGTGACTGAGATTTA
AATGTGTTCTATTATTAGAGTAGATCGAAGAAAAAATTAGTCTCAGAAAGAGCTTTTAGTCTGATTGTTTCATT
TCCCATGTAATTTTAAAGTTAAGCTAAAGTTTTAAAGTGGCAGTTTTCTGTGATGACTTTTTCAAGTGCTAACAC
TGCTCTTTTTGTGAAAATCTGAAAAGTGCTCATATTCACAGGTGGCTGGTGTAGTCTAACTTAATTCATGTGT
ATAACTAGATGGATTTAAATGGTCTGAGCCTATGCCTATCTTTCAAATGGTGTGGATTTTATGGCCATAGTACT
TTACCTGTGAACTCTTGTGATTTTACAAGATTCTCTACTTATGTGATAGGAGGGTATGGCCAGTTATTCATCTA
ACTGGACTCAATCTTAGAATAGTAGGAACATTATACCCAGTTTGCCTAACATGGGCCATTTGTAGCCCAACCTT
CTCTTCCATCTACCTGTCCATTCAATTTGGTACAAGGAAAGGTAACCTATTTCTCTTCTGCACAGAGCATAATG
TGAAGTTTTATACCTACTTTTAAAATCTGCTTTCCAGAAACAAAATTCCTGCAGTGGTCTAATTTAATGTCTTT
AAGTTTCATATTACAATTAACCTCATTTTTTTTTTCCATTTTGCCTTAACAGTGATGAATACTTTTACGTT
GGAATCCTCCTTCTAGCTGAAGGTGATTGAAAAGGAAAAGAGTGAGTGAACAGAACCATAGCTTTCTAGGTACTA
AAGCATTTTTTGCATTTAACTGATGAAATTTCTAACAATCATCAGTTAGGAATATTAACATGAAGGATAAACCAA
CTTATTTGTATACCTAAGGCAGGCATTTGGATCAGTAACATGTTTTACTAAGCCTAGAGTAATTCGTAAAGGGTA
TAAGCATAGGACAGATTTTGCCTCAATCACAATATTGTATTCACTTGAAAGCAAACCTGGCATGGTTCTGATTTT
TAAAAATCTTGACAAAATTTGTAATGTGATACTGTGAAACAAATTGAAAACATTGCCTCTTTGCATCACATACCTC
GTTTTTCAGAACTTTCCAACTGCTTTACATAGACCTCTACAAGTAGGGAATGTTTTCTGAAGCAGAAGTTAAA
ATGGACAGCATTTCTAGAATTAACATTTTAAAATCTAGTCTTAGCTAGATATGTGGTTCTTCTTATTGGTGTG
ATAGTATGCTGTAAATCTCTGTATAAACTTTGTCAACATTTTTACCTCCCGAGTTTATCTTCTGTTTTGTTTTT
GTTTTTATCATCATGATGTTTTGGAGTTATTACTGTGATTTTGAAGATCATTCTTTACAGTTTTGCATTGCTGA
GGAGAGAGAAAAACAATTTTTTGAAGAGATGTTTATGTAATTTATTTTTGAAAGCTTTGTTGAATAAGATTT
CCTGCCGCTTTTTGACAATCTTGTGATTTAGAAAAATGTATTACTTGAAAACATGACATAGAACATTGAGTTAG

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FIGURE 1906B

CAATTTACATGGGCTGTATGTTATATAAGAGAATGACATACTGTGGCTAATTCAACAGTAGATTTATTCTTTTAG
CCTGCACAACAGTTGATCTTTTGGCTATGACAATTTGTATGGAGGGTACGATCTAAGTTAAGTGTGTCAAAAGCA
AGGCTTAGGATTTGTTATGGGAGTAGAATATATATTGAATTTTGTATGAAGAACTATTTGTTTAAATTATATAGC
TGGGATATTTTCCCACTGTAAAAATGGATTTCAGAAGAGGTCCTAGAAAAGTAAGATTAGTGACATGTGTGGGTTT
ATATTTAGATATTTAAGGTGCATTTTCATAGTGTGGTAAGACCTTAAGTAAAAGGCACAATGGGTACTACAGAAT
TAAATGTAGGTCTAACATAATGCCAGTTCACITTTAACTTTTGTGTTTTGCATTTGAAGAATGTATGTAGCACTTT
CCTATATATTTGTCACACATTGAAAACCTGGACTGGGTATAACTATGTTATAGGAAAGTAGAAATTGTATTCTTTA
TTTTCCATCTTTGTTTTCTGTTCTACAAAGTTGATGCTTAAGCATCAAGCTGATTTTATTGGTCATGAGAACAAA
TGGATGTGAICATGAAGGAATCAGATTCCCTATGTAAAGCAGTTTAAAAATGGAATTCAATGTTTCAGTGCTCAGGT
ATGTAGTAAGTACTGTAGTCCTGTGGGGGCAAATGTGTAGATATTTTAAACATTTTGCCATAATTGCACAATTT
TTTGCATTTTTACCTGATGTCATTGTTTCTTATAATAAAACCTTTTCTGATTG

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FIGURE 1907

CCGGGGCGGCGGTTGCATCAGATTCTAGGAAGTGTCTGTAGCCGAGCTGCGGGTCCGGGATTCCCAGCCATGGC
AGATTCTCTCCGGGAGCAGGGCAAAGGCCGCGTGTGCAGCCCCAGTGGTCCCCTCCTGCTGGGACCCAGCCATG
CAGACTCCACCTTTTACAACAGCCTCACCAGGAACAAGGAAGTGTTCATACCTCAAGATGGGAAAAAGGTGACGTG
GTATTGCTGTGGGCCAACCGTCTATGACGCATCTCACATGGGGCAGCCAGGTCTACATCTCTTTTGATATCTT
GAGAAGAGTGTGAAGGATTACTTCAAATTTGATGTCTTTTATTGCATGAACATTACGGATATTGATGACAAGAT
CATCAAGAGGGCCCCGGCAGAACCACTGTTTCGAGCAGTATCGGGAGAAGAGGCCTGAAGCGGCACAGCTCTTGGA
GGATGTTTCAGGCCCGCCCTGAAGCCATTTTTCAGTAAATTAATGAGACCACGGATCCCGATAAAAAAGCAGATGCT
CGAACGGATTACAGCAGCAGTGCAGCTTGCCACAGAGCCACTTGAGAAAGCTGTGCAGTCCAGACTCACGGGAGA
GGAAGTCAACAGCTGTGTGGAGGTGTTGCTGGAAGAAGCCAAGGATTGCTCTCTGACTGGCTGGATTCTACACT
TGGCTGTGATGTCACTGACAATTCCATCTTCTCCAAGCTGCCCAAGTCTGGGAGGGGGACTTCCACAGAGACAT
GGAAGCTTGAATGTTCTCCCTCCAGATGTCTTAACCCGGGTTAGTGAGTATGTGCCAGAAATTGTGAACTTTGT
CCAGAAGATTGTGGACAACGGTTACGGCTATGTCTCCAATGGGTCTGTCTACTTTGATACAGCGAAGTTTGCTTC
TAGCGAGAAGCACTCCTATGGGAAGCTGGTGCCTGAGGCCGTTGGAGATCAGAAAGCCCTTCAAGAAGGGGAAGG
TGACCTGAGCATCTCTGCAGACCGCTGAGTGAGAAGCGCTCTCCCAACGACTTTGCCCTATGGAAGGCCTCTAA
GCCCCGAGAACCGTCTGGCCGTGCCCTTGGGGAAGGGTTCGTCCGGGCTGGCATATCGAGTGTCTCGGCCATGGC
AGGCACCTCTAGGGGCTTCGATGGACATTACGGAGGTGGGTTTCGACCTCCGGTTCCCCCACCATGACAATGA
GCTGGCACAGTCCGAGGCCTACTTTGAAAACGACTGCTGGGTACAGTACTTCTGCACACAGGCCACCTGACCAT
TGCAGGCTGCAAAATGTCAAAGTCACTAAAAAATTTCATACCATTAAAGATGCCTTGAAAAAGCACTCAGCAGG
GCAGTTGCGGCTGGCCTTCTCATGCACTCGTGGGAAGACACCCTGGACTACTCCAGCAACACCATGGAGTCAGC
GCTTCAATATGAGAAGTTCTTGAATGAGTTTTTCTTAAATGTGAAAGATATCCTTCGCGCTCCTGTTGACATCAC
TGGTCAGTTTGAGAAGTGGGGAGAAGAAGAAGCAGAACTGAATAAGAACTTTATGACAAGAAGACAGCAATTCA
CAAAGCCCTCTGTGACAATGTTGACACCCGCACCGTCATGGAAGAGATGCGGGCCTTGGTCAGTCAGTCAACCT
CTATATGGCAGCCCCGAAAGCCGTGAGGAAGAGGCCCAACCAGGCTCTGCTGGAGAACATCGCCCTGTACCTCAC
CCATATGCTGAAGATCTTTGGGGCCGTAGAAGAGGACAGCTCCCTGGGATTCCCCTGGAGGGCCTTGAACCAAG
CCTCAGTCTCGAGGCCACAGTCATGCCCTACCTTCAGGTGTTATCAGAATTCCGAGAAGGAGTGCGGAAGATTGC
CCGAGAGCAAAAAGTCCCTGAGATTCTGCAGCTCAGCGATGCCCTGCGGGACAACATCCTGCCTGAGCTTGGGGT
GCGGTTTGAAGACCACGAAGGACTGCCCCAGTGGTGAAGTGGTAGACAGAAACACCTTATTAAGAGAGAGAGA
AGAAAAGAGACGGGTTGAAGAGGAGAAGAGGAAGAAGAAAGAGGAGGCGGCCGGAGGAACAGGAACAAGAAGC
AGCAAAGCTGGCCAAGATGAAGATTCCCCCAGTGAGATGTTCTTGTGAGAAACCGACAATACTCCAAGTTTGA
TGAAAATGGTCTGCCCCACATGACATGGAGGGCAAAGAGCTCAGCAAAGGGCAAGCCAAGAAGCTGAAGAAGCT
CTTCGAGGCTCAGGAGAAGCTCTACAAGGAATATCTGCAGATGGCCCAGAATGGAAGCTTCCAGTGAGGGGGGCAC
AGGACTGACTTTTTAAACCATTGTGGACTAGTGGCTGCTGTCTGCCTCAGTGACAATGTCCCAGCGCTCCTATCA
TGTTTACAGTCACCCTTGGGTCTAAATTAAGAGTTGTGTTTCATGTAGGTTTCGTGTCGTGCTGCTGAGACA
TTGATAATAAATTTTTCTCAACAGTGAAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1908

MADSSGQQGKRRVQFPQWSPPAGTQPCRLHLYNSLTRNKEVFIPQDGKKVTWYCCGPTVYDASHMGHARSYISFD
ILRRVLKDYFKFDVFCMNITDIDDKIIKRARQNHLEFYREKRPEAAQLLEDVQAALKPFSVKLNETTDPDKKQ
MLERIQHAVQLATEPLEKAVQSRLTGEEVNSCVELLEEAKDLLSDWLDSTLGCDVTDNSIFSKLPKFWEGDFHR
DMEALNVLPPDVLTRVSEYVPEIVNFVQKIVDNGYGYVSNQSVYFDTAKFASSEKHSYGKLVPEAVGDQKALQEG
EGDLSISADRLSEKRSPNDFALWKASKPGEPSWPCPWGKGRPGWHIECSAMAGTLLGASMDIHGGGFDLRFPHHD
NELAQSEAYFENDCWRYFLHTGHLTIAGCKMSKSLKNFITIKDALKKHSARQLRLAFLMHSWKDITLDYSSNTME
SALQYEKFLNEFFLNVDILRAPVDITGQFEKWGEEEEAELENKNFYDKKTAIHKALCDNVDTRTVMEEMRALVSQC
NLYMAARKAVRKRPNQALLENIALYLTHMLKIFGAVEEDSSLGFPVGGPGTSLSEATVMPYLQVLSEFREGVRK
IAREQKVFEILQLSDALRDNILPELGVRFEDEGLPTVVKLVDRNTLLKEREKRRVEEEKRKKKEEAARRKQEQ
EAAKLAKMKIPPSEMFLSETDKYSKFDENGLPTHMEGKELSKGQAKLKKLFEAQEKLYKEYLQMAQNGSFQ

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FIGURE 1909

CAATCCAGTCTCTAGCAGTTATGTTGTTAGAATGGATTTCATCTGTGCTTATTTTACAATACTTCATTTATAGCA
ATGCTTTTCCTTAAGCTAATGTATAAAATATTTCTAAAGGCCATTAAAGTAACAAAATAAGTAGGGGAAAAAATG
GACCTTCTGTATAAAAACCCCTTAGCTTTTTTTTTTTCACAAGTTATAAGTGGAATAAGTTAATAACTGAGCTCGT
AAGTGTATCTCATAACTATAAGAGCTACATGAAGAAAATAGGAATAACACACCTGGTATTTAAACACAATCTTCA
AAATCTTGCAACATTAAACATAGTAAAAATGCCAGAATATAAAATGAGGTGTGCTAATGGTCACAGGATTGAGGC
CAGCATTACAGTTTGGGGTGATTTTTCTTTTATTTTGCTCCCTCAGTTTGTTCCTAGATGCTAGTAGGGGTATCT
GGGTTGCTTGAGATACCATTTTGCAATTGCCCTTCTCTTTCTGCTACCATCTTCTCAGGCCCTGATGAGCTTA
TTGGTAGGCAACTGGGCTGCTTTAATGTTGAAGTTGACTTCTTTAGAACTGAAGTGGAATCATTGAAAACTTT
CAATAAAGCTTTAAAGTTCCATTTACTTTTTGAAGCACAGCTAAGCTCCTCTGAAGGCAGCTGGTTTGTGCAAC
TTAAATTTGTACTGAAAAGTTGCCACTTTTTATTTAGTAAGAAAACAAACATTCTGGCTCACTAGAGTTTCAAGAA
AGTAATAATTTGAGCCAAAGGAATTTGAATTAAGAAAATAGAACTAGGTTTCATGTATTTAAAAATAGGAAAT
AAAATAGAACTCAAATGCCATGAAGTTATCTTCTCTCTTATATCCCCTAAGTTTGGGGATATAAGGAAGAG
GAAGATAACTTTCCAATTCTAATAACCTAAATTTTGAAGTAGTGTTCAGTGAAATGATGAATGTTTGA
GTTTTGTTGGTAATCAACATAACAATGCTAACAAAATCCCCTTAGATTTTTTAACTTTTAAAGTCAGCGTG
TGATAGGATGGAGTGAGCAAAATTGTTTTCAGGGAAGATGGCACATTTTAGAAAAGACTTGCCAGATGATCTTC
CATATTGCTCCCCCAATGTCTATTCGCTCATGCCAATCCTCCTCTTGTACCTGTGGCTATGGTAAAAATTCCT
TTAACAAGCTTCATTGTGTCCAAGTATTTTCAAGACTTTTTAAAGCTGGGCATGACATAGCGTTTTGTGCTGTTA
AGACCTTAGCAGAGTCAGGTAGTTTACGGGTAAATATTCAACCTTGTGCATCTGAATCTGTCTAGGATTCCCTTCA
CTCAGCACTTTGCCACTAATTTGTATTACACTCTGTGGCCATATAATACTTGACATTATGCAAAAAAATGTT
GATAGTATCTCCTTGCCACACAATATGCAGAGTTGACAACCTTTGAAAACCAAGGTAACATAATGTATGTCCTA
GTTGTGTGGCGCTTGGAACAAAGTCTGTACATATTATGTATAAAATGTGTATTGGTTAGCATTTAGTACTAAGA
AATTCTGAGTTTAAAAATAAGTGATTTTTTTTCAAAGTAGCGATATCTATATCTGTGTTTATCTAAAAATACTGGCT
TGAATAGAAAACATTCTCAGATGATTCAAGATTGAGTAAAAATGAGAATCCCATACATTCCATTATTAAATCTG
CCCTATTCCCAATTGTTAGCATCTGGCTGATATTAAGGTCTTTGATTGTCACAATATTCTCAATAAATGAGACAT
TCTGAAGTGCCTGGTGATATTTTCAAAAAGAGCAATTAATATGTGTATTCCCTCTAATACAGCTGATAGAACTGT
TGTGTTAAAGCAAGTTGGAAATTTGCATGATAGTGTGAAACCAATGGAGGTCCAAAATATTAATCATATCTAAA
ATATCAGAAAATATCAATACTAGTCTTCTTTATGCATATTTTGAAGTTTAAAGAGGGCTTATGAATTCAATGTT
TCTTCTGAGGCAATCCTTTTAAATGTAAATACTAAATACTTGCATGTCTTTTGACAAAGGCTAACTACAATCTAT
TAATATGCACATTTTGTATAAATATAAAGTACCCTAATTAAGAAAATTTGGGTAGAAGGTGTATGCTCTGAATA
CTATACCTGTTTAAACAATACCAATGTTAAATAAAAATAGTTTGAATTAATGTTTAAAA

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FIGURE 1910

QIQSLAVMLLEWIHLCLFHNTSFIAMFLKLMYKYF

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FIGURE 1911

CTAAAAGCTGCTGTACAAGCCTTTAAAGAAGCAAGACAAAATGTTGCTGAAGTTGAGTCATCAAAGAATGCTTCA
GAGGACAATCATTCTGAGAATACTTTGTATTCAAATGATAATGGAAGTAATTTACAGCGTGAAGCAACTGTCATC
AGTGAGCAAAAAGTCAAAGAAACCAAATATTGGCGAAGAAACCAATACATAATTCAAAGGAAAAAATAGCAAAG
ATGGAACATGGACCTAAAGCAGTGACTATTGCAAATCTCCATCAAAGCCTTCAGAAAAGGATTCTGTAGTTTCC
CTTGAGTCCCAGAAGACACCTGCTGACCCAAAACCTGAAAACCTCTAAGTCAAACCAAAAAACAAAGGATCTGAT
AGCTCACTCTCTGGTAACAGTGATGGCGGAGAAGAATTTGTGAAGAGGAGAAGGAATATTTTGATGATAGCACA
GAAGAAAGGTTTTACAAGCAGTCTTCCATGTCTGAAGATAGTGATAGCGGTGACGACTTCTTCATTGGGAAAGTC
AGACGGACACGAAAGAAGGAAAGTAGTTGTCACTTCTCAGTTAAGGAACAAAAACCACTAGAAAAAGTGTTTCTT
AAAGAAGATACAGGTGAAACTCATGGGGATACAAGAATGACAAAATCAAGCCAAGTACAGAAACCAGAAAGTTA
GAATCAGTGTTTTTCCACTCTTTATCTGGATCTAAAAGCTCTAGAAGAAATTTCAAAGAACAGGCTCCAAAAACA
AGATCCCTAGATTTTCCACAGAATGAGCCTCAGATCAAGAATCAGTTTAAATAAGAAGCTATCAGGAAGACTTGAA
AATACAAAACAGCAATTGCAGCTGCCTCTTCATCCTTCATGGGAAGCAAGCAGAAGGCGAAAAGAACAGCAATCT
AATATTGCTGTGTTTTAGGGGAAAAAATTACGTTTGTGATTGATTAGTGCCCTCTTTCTGCAAACTTTTCCATC
TAAAAAATAAATGTTTTTTTTGGGACAGGATCTCAATCTGTGTGCCAGACTAGAGTACAATATTGCAATCACAG
CTCACTGCAGCCTCAAACCTCTGGGCTCAAGTGATCCTCCACCTCTGCCTCCCAAAGGGCTGGGACTGCAGGTG
CATGCACTACCAATGCCAGCTTTCTCACCACAGGCTCTGCAGCTATTACTTAACTCGTATTTGAATAAGTCTCT
TGGGGAGAATTATAGAATGTTGTTTTTGTATTTTTTAAAGTAAATTCAACTTACGCTTATATAAGCCTTTC
ACAAATCCAATATGTACTTAAATTGATTTTTTAATAATATCCCTCAGACTGTTTCCCTTATGAAGTAATTTGGGGA
TTTTAGTGATCTCATATTTTCTCTTTAGTGCTTATCATGAAATGTGCTTCACTGGTTCAGCTCTGTTGTTTCTT
AAACATAAATGTCAATATATATTTAAATAATAATGGAACATAGGAAATCAGCTATTTAAACCAGATCACCTT
GTTAAAAATCATTCTTGTAGCAAACATAAATAGTAACTTTTATTATGGATGTACAGATAAAATATTAATTTTATT
ATAGTTTTAAGTACTTGTGATCATGTACTTTTTGATTCTAAAATAGTTGTCTAGGACAATTTTGGGATTCTTAAT
TATATTTTAGTTAAGAAATGTTTAAATATAGCAATACAACCAATAATTTGTTTTATGTTTCACTGCATATAAA
TATTTCCATTAAATCAAGAATGTATATTATCTAGTTTTTACTATACTTATTTTAAATTTTTGAGGAATCATAGA
TTCTAATTTTTAAGAACAAATTCTGAAGGTGGTAGGATTAAGAATATTTCCACTGATGGCTAAGCAAAGAAGT
TGTAAGATGACTCACTGAGGAAGGGACTGCTTTATACATCACAGTACTGCTATTTAAAGGAAAACAGAAATTTT
TAAATCCCTTCAAATGTTTCACTTTTGCTATGCTGGGAAAAATTTGAAGTTCTTGGTAAACTGAATAATGCTAA
TCCATGTTTCCCTGCACATTAGTTCCTTTAAATGGCAGGGAAGGCCATCTGGTTAACCTGTATTACAACTCTCAA
GAGTTTCTACTTATTTTCAAGAGCTTAAAGAATTTAGATAACTCAGCCGGGCGTGGTGACTCATGCCTATAATCCCA
GCACTTTGGGAGGCTGAGGCGGGTAGATCGCTAGAGGCAAGGAGTTCAAACCAAGCCTGGGCAACATGGTGAAC
CCTGTCTCTACTAAAAATACAGAAAATTATCCAGGCGTGGTGGCCGGCATCTGTAATTCAGCTACTCAGAAAGC
TGAGGCATAAGAATTGCTTGAACCTGGGAGGTGGAGTTGCAGTGAGCCAAGATTGCACCACTGCACTCCAGCCT
GGGTGACAGAGTATGACTGTCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1912

CTGCGCCTGGCGTCACCGACCGGTGCGGACAGGAAGAGGCTCTGGGCTGGCACATGTGTATGGCGGTGAGGCGGG
CGGGTACATGCGGGGCTCTGTGGGACTGGCGTTGTGCGGGCAGACGTTGGTGGTGCGGGGCGGCAGCCGATTCTT
GGCCACCTCCATAGCAAGCAGTGATGATGACAGCCTCTTCATCTATGACTGCAGTGCTGCAGAAAAGAAGTCACA
AGAAAATAAAGGGGAGGACGCGCCCTTGGACCAGGGGAGCGGTGCGATTCTGGCGTCCACCTTCTCCAAGTCTGG
CAGCTATTTTGCTTTAACCGATGACAGTAAGCGTCTGATTCTTTTCCGTACAAAACCATGGCAATGTCTGAGTGT
CAGGACCGTGGCAAGGAGGTGTACAGCCCTGACTTTATAGCCTCGGAGGAGAAGGTCTTGGTGGCCGACAAGTC
TGGAGACGCTACTCCTTTTTCGGTGTCTGGAGCCACACGGGTGTGGCCGTCTAGAGCTGGGGCACCTGTCTATGCT
GTTAGATGTGGCTGTGAGTCTGTATGACCGCTTCATCCTCACTGCCGACCGGGACGAGAAGATCCGAGTCAGCTG
GGCCGCGGGCGCCCATAGCATCGAGTCCTTCTGCTTGGGGCACACAGAGTTTGTGAGCCGTATCTCCGTGGTGCC
AACTCAGCCCGGGCTGCTTCTGTCTCCTCTGGGGACGGCACCCCTGAGGCTCTGGGAGTACAGGAGCGGGCGCCA
GCTGCACTGCTGTACCTGGCCAGTCTGCAGGAGCTGGTGGACCCCGAGGCCCCCAGAAGTTTGCCGCGTCCAG
GATTGCATTCTGGTGCCAGGAGAACTGCGTGGCGCTCCTGTGCGACGGCACTCCTGTGGTCTACATCTTCCAGCT
GGACGCCCCGAGACAGCAGTTGGTGTACAGGCAGCAGCTGGCGTTCCAGCACCAAGTGTGGGACGTGGCTTTTGA
GGAGACCCAGGGGCTGTGGGTGCTCCAGGACTGCCAGGAAGCCCCCTGGTGCTCTACAGGCCTGTGGGCGACCA
GTGGCAGTCTGTTCTGTAGAGCACCGTGTTAAAGAAAGTCTCTGGTGTCTTCTGTGGGAAGTGGGCCATGCTGGA
AGGCTCTGCCGGCGCAGACGCCAGCTTCAGCAGTCTCTACAAGGCCACGTTTCGACAACGTGACCTCCTACCTGAA
GAAGAAAGAGGAGAGACTGCAGCAGCAGCTAGAGAAGAAGCAGCGGCGCCGGAGTCCCCCGCTGGGCCCCGACGG
GCATGCCAAGAAGATGAGACCGGGGGAGGCGACGCTAAGTTGCTTGATCGTGGCGGTCTGTTTCTGTGCACTGTGG
ACCACTTATGTGCGATCCGTGGACCACTTGGCTGCGATCTGTGCGCCGACGATGAGCTTGTTCGGATGTAGCTCC
ATCGTAAGTCGAGGAGCATCTGTGATTGTCTCTGCTTATGGGATATGTTTTTCCGCTACTGAGTCTGTGTAGT
AAATTTTGGACTAGGAA

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FIGURE 1913

MAGSVGLALCGQTLVVRGGSRFLATSIASSDDDSLFIYDCSAAEKKSQENKGEDAPLDQGS GAILASTFSKSGSY
FALTDDSKRLILFRTKPWQCLSVRTVARRCTALTFIASEEKVLVADKSGDVYSFSVLEPHGCGRLELGHLSMLLD
VAVSPDDRFILTADRDEKIRVSWAAAPHSIESFCLGHTFVSRI SVVPTQPGLLLSSSGDGLRLWEYRSGRQLH
CCHLASLQELVDPQAPQKFAASRIAFWCQENCVALLCDGTPVVYIFQLDARRQQLVYRQQLAFQHQVWDVAFEET
QGLWVLQDCQEAPLVLYRPVGDQWQSVPESTVLKKVSGVLRGNWAMLEGSAGADASFSSLYKATFDNVT SYLKKK
EERLQQQLEKKQRRRSPPPGPDGHAKKMRPGEATLSC

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FIGURE 1914

TGCCTGGCCTGACATTTTTANAAAAAGTTTTATTTTGCACGGCTCTAAACCTCCATGTTATTTCCAGTGGTGTA
GAAGGTACCAGCTAAAGTGAACCACTATGTAATATTAGGCCATTCTAAAGGAAAGATGTTCCATGTCATCAGAGA
TGGTAAATAGGCAGGGAAAAAAATCTTTGGTACCAAAGATTACACTTGTGTTTCTACACAGCAAACCATTTT
TCTTTCATGAAAATAATATATTATTAACATGAATATATTATTTTGCTATTAATGTGAAAGTTGTCTCTAAATATT
TTTTAATTTTCAAACCTCATACTTTATTTTCATTTGAAATGTTTTTCACACCTTTTGCATTACATAATAATTTTGT
GGAAGCATTTTGCCCTTTAGAATAAATATTAGATTGATATAGCTGAAATGTGACTTCCAGTTCTTTGATATTCCC
CTTGTTATTCAAATAGAAATATGGAAATGCTTTATATATTACTGTTAAATTTCTTAGTGCAGAAATAACATTATT
AATAGAGTATTGTTTTCAAACAGATGATTAATTTCAAGAGGTTTAAACAGTGAAATTGTGTCAATATTTTGCATT
TAAATGAATTTAATTGACCGATATTTTCTGTAGTTAAATTTAGTCACAATATCACATATGTTCTTCAAGAAACA
CATGAAATTATTAATAAAGTAATTAAAAAATTTTTAATGTATAACAGAAATTGACCAATAGGCCAGTTTTCTGGTA
ACTTATGATAGTAGATTGTTTTCTTTAGAAACTGGGCAGAAGCTCTGCATTCTCACTTGTACTTTGATTTCTTATT
TCTTGGTCAGGCAATTTGAGGAAAGAAGAAATGGCATGGGGAATATATATGTTTTGTTTCTTAGGGAAAACAGTC
TGAGAAATGAATAAAAAGCATGAANNNNNNNNNNNNNNNNNNNTACCATGGAAAAGGATATTCACAGTAGTA
CAGTTCTCAATATTTTTAATTAGATGTCATATTTTTTAATATAGTAAAACCTTGGGATATAGAATATTACATCT
TTTGAGAATGTATGTGTCTCTAAGTAAGTAAATCTAATGCGTATAGGAGACTGATAGCTAAAAATGAATGGAAC
ATTAATGTACTTTTATAATTAAACCTCTTATCTATCAGAAATTGTAAGAGAATAGATACATGTTTTGAATGTAAA
GTTGAAAAGTCTGGTTTACTGAATAAATTGAAAGTGATTTATAAAATCTAAATTTGGACTACTTGCAAATGATAA
GCTATTCTAGTAGCCTTTAGTTTTAAATCCAACAGAAATCTAGAAGTCACAAGCAAATATCTTAAAGGTAAATCC
ATCTGGGCACTCATTTAAAGTATATCTTAAAAAGCAGCAGCAAGGTACCTTGCCATTTTTCATATTTTCTTC
CTTTTCTTTTTCTTT

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FIGURE 1915

PGLTFLXKVLFCIALNLHVIFQWCRRYQLK

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FIGURE 1916A

ACGAATTTAGAATATAGGTAGTGTCTTGGAACTTTTGAATATGTTGGAATAAAGTCATCCTTTCTCATTTT
CTGAAAAAGCAGGGAAGAAGCAACAGTTTGGTTTTGATGAGTTTGAATTTTCTGCCACTTGTAGTGATAAATGT
TCTTAGCAGAAGCACGTGGCAGCATTAACTTAAAAATTAATATCAGTACGTATGTTAATAATTTAACTAGTTT
TATTTTGAAGGATAAGGATATTCTGACTAGATTACAGTAACATCTACAATTGCAATTTCTATGACAGTAAATTT
AGCTTCTATAAAACGTAAAGAACCTTTAGTAAACAGCAGGGAATTGAGTATCATCTGTTGAATAAAATAAATTTA
TCATTTTATCCTGCCAGAAGTATGATGGGCATCTTCCAATAGAAATAAAAGCTGTTCTGAGGGCTTTGTCATTC
CCAGAGGAAATGTTCTCTTCACGGTGGAAAACACAGATCCAGAGTGTTACTGGCTTACAAATTGGATTGAGGTAA
ATTGTTTTTTTAAATCTTATTTAACATTAAATTGAATAAGACCATTGAAGTGAATTACAGTTTAGAATTGTGTA
CTAATANNNG
ACTAAATAATCTTTAAGGTTTCTTCTAGTAGAATAGAATGTTCTGAGATTTTGTGTTAAATCAAATTATTGAGAGT
GATTGTTTTTAAAAACCTAGTTGGCTTTCATCTAATTCATTGCCATTTAAGTGTGTATTATTTTAGAGCAAACCTT
AGAAAAACAGCACATTTCTAGTAACCTTACGACATTCGATGAATGATAAATGTTCAAGTTAGACTAAAGGAACCTT
ATTCCAACCTTCTAGTAACCTTCTTCTCATTTTCTCTCATCAGTTTAGGTCTTAGGATCTACCATCTGTACTT
TTCAGTTTCTCATCTAAATAAAACAAGATCTGCTGTTTCAATTGTTAATTTCTCAGGAAGGGTACATTTGGGC
TTTGGGTTTATACTGCGAGCCTTTTTTTGTTTTTCTGTATGTATACCTAAGTAGTCATATGTTTTACATGGT
CAGAGTTTTGATAATAATACTCTACCTAGCTTCTGAACAGTTTAAATAATAGATTTAATCCGTGAGAGGAAATACC
CTCGAAAGTTACTATAGAAATAACACCTTACTATCTGGTGGCATTACTTAGTTCTTAGAAGTACTAATTAGTT
TATCGGTTAAAGTAATTTGCTATTATATTGTAATAAGTACATTTGAGGCTCACTTATAAAAAATTGGAACATC
GAAATATAAGAGGTCCAAGAGGGTGTGTTGAAACACATTTGCTAAGTTGACAGGAAATTAATAGACTTTTTATGG
GCCATTAATAATAATACACTCAAAAAAAGGTACAGTTAAATAAAGGTTTAAATAGTCTATACCGTATACTAA
AACTAAATTAATTTTAGGACTGAAATAACATATTGATTAAGTACCAGCTATGTACCCAAAAAATGCTGGGCACA
GAAGTTAGAGTAAGATGTTTTACTTAAAGGGCCTTTGAGTGAGAGTTGGCAATTCATTCTGAATAACCACTAAT
ATCATTAAAGATTTAGTGCTGAGTTGGTAGCAGGAAATAGGTAATCTGTCTAAAGGAATCATGAAATGGAATA
AATAAGCTTTTAAATAAGGAGAAGGAAGAGCTGAAGAAATGGCACAGTGTCTTAGAATGACAGATAGTCCTATGG
GGACTGCAGCATAAAAGTGAAAAATGTATAAGATAAACCTTTAGATGGTAAGCAAGGCAAGATTCTCAAATCTG
TATGAATCAGCTCCACCTCCGCCCCATGGACAGTAGATGACCGTTAATGGCTTTTAAAGGAAAGATGCAACCTGGA
AAAAAAGAAAAAACTGTGTTTAGAATGGTAACCACTGGCAATATGAAGAATAATTAGACTAAAGAAGAGAGG
TAGGATAATCATGGGCATTGGCAGTGAATGAAAGAGTAATTCAGAAGCAGAATGGTCAGATGTTGGAGGTGA
TTGGTTATAGAGTTTAAAGATTTGNN
NNNNNNNNNNNNNNCCTGATTCTGTGGTTGACTGGATGGTCTGCTGCTCTTGCTTAGACTTAGGCATCTGCAT
TTAGCTGAGGGTTTCAGCCAGGGCTGGACATCCTTTAATGGCCTCATTCCCATGTCTGGGGCTCAGGTGAGATAG
CTGGGACTACCGGTCTCACTCCAGAAGAGGCTTCTTCAGAGCATGGTAGTCTTGGGGTTCTAAGAGAATGAGAG
TAGAAGCTGCAAAACCTCTTGAAACTGGGGCTTGGGAGTCACACATGACTTCTCCACATTCTGTTTCGTCAAAG
CGAATCATAAGGACAGCACAGACTCAAGGGATAAGAAAGGAGATTCCATCTCTTGATGAGAAGAGCTGCAAAGGC
CATATTTAATCAGTCACAGGAGTCTAATGCTACAAAGTAGTTTTTAAAAAGATGACTAGATTGGCAAGTTCAAG
GTTAATCTTTTTATTTGTTTTATTTATATATCACTTAGCTGGTATTCAAGTAAAGCTTGCTTTGTAAATTTAGT
TAATATCTTTTTGGTTTTCAGCACAGACATTGCATCATCTTAGCAGCTCTTTTTCAAACAGATTTGAAGCTGCTTCA
AATAACAATCTGGTTTATAAAATGAAAATAGAAAATTATGATCTTAGAATGAAGAAGTGAATTTCTAAGCCATGA
TAATTATTACGGTTGCTGTGATTAGACAGACTTTCTGTGGAGCTTCTGACACCAAGAAAAAGGGGAAATCA
AGGAAGTGTCTTATCAGAAAGTAGGAACCCAGCAATTCCTTCATTTTCTCATTGGGAACTTAATAGTCACTGAA
TTACAAAGTAGACAGTGACCTTGATTATACAACATATGCGGAAGTGTTCCTGTAACTTACGTGAGTATTTTATC
AAATACTTATATATTTGATAAAAGCTAAGTACATAAAGCATAACTCAGTAGATAGAATTCTCTAGTAGTAAGCTA
AAGTGCTTCAAGTATTAGTTGTCATATTAATCCAAGAGAAAATTAGATCTGAGACTACCTCGAGGAGTAAACGAA
CAACTTCTTTAAACCAATACTAGTCAAAATGCAGTCCACGGACCAATGCTGGTTTCATGCCCTATTGATCCAAGT
CCACATTAAGTACAGAAATGAAGAGTAAGCATTAGAAAACCTTGGGGCAATTTGACATTGCCTCAACATCCAAGTT
TCAGTGTCTTTATAAACTATTGATCCATGACAGATCATGAACTTTCTAAAAATTGATCCTTTTATCACATAGT
CTTTCAAATATTATTTGCTTCTTTGAAGCTTTGGATAGAACTTGATAATGTGAAGTTCTCTGCTATGTGGACC
TGGTGTGCTTATCTTCTTTGTTGCTGATTTGAGAGCTGAGCTATGTACTATATCTGGAATGCACACAGCAGGCAT

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FIGURE 1916B

CCTGCTGTCAGTTCTGIGTCTAGTTAATAGTATGGAAGTTCACATTATCAAGTTTCTATCCAAAGCTTCAAAGA
AGCAAATAATATTTTGAAAGACTATGTGATAAAAGGATCAATTTTGTAGAAAGTTTCATGATCTGTCATGGATCAA
TAGTTTATAAAGGACACTGAAACTTGGATGTTGAGGCAATGTCAAATTGCCCA

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FIGURE 1917

MLRQCQIA

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FIGURE 1918

AACCAAAAAATAGCATCTGTAGCCCCTGTGTGCTTACTTTAAGTATATGTTACTGAAAAATGCCGAGTGAGCACT
TACAACCTCATTCTCCTGGGAAGCACAGTGATACCTATACCCCAAATGCTTTTCTTTATCATTTTAATTTTTATCTT
CTTTACTTACATTTCCAACATCAGTTAAGAGGGTCTTGTAGTTTTCTAACTGAAAGGAGATTGTAAAATCTCCTT
GCTCAAAACTCAGATGCAGAATATTATTTTTACTACAATAAATACATCTACAACAATGGTATTATATCTGGTTTA
TTTCAAAGTCAAGTTCTAATATAGGTAAACAAATATACTAATAAAGAGATAATGCTTTTCTCATGAAATGTATAA
TCTAGTAGGAATAAAGATAAACAATTTTTTTAAAAATTCTATTTTCATTAAAGCAAAAATGCAACTCAGAAGAATAA
TGTATATTAGCAGTCATTTACTATTTTTCAATTAAATTCCGATATATATGTAAAGTAAATTATTACTAATATCAA
ACATAGTTTAAAGAATTAGTGACTATGTGCACTTGGATCTCCATATGTAATGTACTATCAGCATCTTCACAAACA
CAGTAAATTTTACTACGCAAGTAAACTTATTTTTACTAAACGATGATTACTCCTTCTATATTTCATATTCCTAAAC
ACATACAGTTTCTTAATGTAATTAAGTTTTTAACTAAAAAAGGGAAATGCATTATTGAGGCGATAGGATTACTG
GGTGGCTATAAACACATCTGCTGCACAGCTGACATTTATCTTCTACAATGAGCAATGACAATTTTATTTTTTAAT
AATCAGTATGGACTAATCCTGATGATTTTTTTTTTAACATTTTCAAATAGGGCTGCATATGGCTTAAATTAATAT
ATACATGTGTACCTATATAATATTCTTATTTATTAATGGACTTCCTACATAGCTCATATTGACGTTAGATTTAAA
TGAAATTCAGAAGGGTTTTCTATAGGTAAGTCATACATTGGATTTCCATATTACCTATGATTATTGAAGTATTT
ATTTCTGTTTTTAAGACTTCAGAGCAATTTTGCTGGTCATTTGTTTTCTGTGTTTTTATTTTGAAATTGTTCTTT
GAGGCATTGTCCTTATTTACATTTTTAAGGTATGTTAATAAATAATTTTTTAATGAAAAA

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FIGURE 1919

MIIEVFISVFKTSEQFCWSFVFCVFIKLFEEALSFTFLRYVNKIIFLM

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FIGURE 1920A

AGGAATGAAAGGTCATAAGCCATTAGAAATAGTGGCATTATTATGCAATAACAACACCCTAGCTAACCTGCTTTT
GTCATCTGTAGCACTTACAATAAAGAATGATGACCTTCCAACCCTGGACACTACCTCGATAAAGCAAACCAGAGA
TCCTCTCTACACTTTTCTATGGAAGCCATAAAAGTTGCCATCAATATATCCACTTTCATAGTTCTATACTTTTATA
CTTTCTAGACTTTTTTATAGACTTTATGATCAGATCTTTTTGTCTCAGAGGATAGGTTTTGCAAGATTCAAAGGA
AAATCAAACCTCCTTGTTGTTCCAGCTTTGAAGCTTTTGCTTCAGTAAATTTGTTTAAAGAACCAGATCACATAC
CATTTATCAAATTCCTTTACTTAAGTCAGAATACTTTGCAGACATACATATTTGGAAAACAACTGTTTCTTGTTT
ACTAGATAGAATCTGTATTGTAGTAAGAACTACTTACAAGGTGGCTTTCTTTCTGCTTTGTTACTCTATGTATT
ACTCAATAATATATGTATGGTCACAGGTTCCCTGGAGTTGTTTTATTTCTTTATGACAGACACATGAGTATGCACC
TCTCTCTAATCCTCTGATGTCAGTCTCTCTCAGTCTCTGTTTTGAGTGCCTTCAAATGCCAGCA
TCCTGGAACATTCTTTTCTGATCTAAATCCTACCTCTGACTATTTTATTATCCATGAATATTGGAATTCACCCA
TATTCCAATGGGCTTAACCTCTACAACTAGCTAAAACCTTGGACAAGAATTTGACCGTATTTCTAGTTTTGTTCC
TCCATGTCATTTTTAGGTTATATTTTTAACTTTTATTTATATCTTATTTCTTCACATATTTCTGCTCTCTGTTGA
AAGATTTTTATCCTTATTTGACTCTTCACTTTTTTTACTTTTACCAGAAATTTGACGTTCTTTAAAATTAAGGT
CATTGAATGCTTTTTGAACACCTTTTTCTCACTGAAGTCTTCTGAATGCCTCCCTTTCTGATGAAAGGATCC
TGAGTGTCTGCTGTGCTCTGCCCTGTTCCCATGTGCCACTCCCTTCCGTACACATTTTGCAAGACTATACTCTT
TATTTTAGTCAAATTAATTTAAAATTGCTCCCTGGGTTTCTGCTCTCTCATGGCCCTGTCCCTCAAACCTTCTG
TTTACTTTTTCTAGCTGTTTTCTATCTAATTTGTTTAAAATGTATGATGGATCCATAATATATGAAGGATGTAATG
AAAAGGAGGTTGCAGTGTATTTATATAATATGATCGAGCACCTCCGTGATGAAACATTTAGCAATTGGCTAGTCTCT
TCACAGCCAGAGTGAAGTTTGTGCTGTGGACAGGCTTTTTACTCCCTTCCAGTTCTCTCCAAACCTGGACGA
AAAAGGAAAAAAGAACTCTTCAAATGAGGAGATTTGATTGCATTTTTTTAGGTGAATGAAAGCTTGGAG
TTGAGCATTGGGCTTAGTCAGCATTCTTTCTTTCTGACTTAAATCTCATGCTCTTTTCTTAAAGTTAATAG
TACTCAGGTTTTTAAGACTAATAACCACACAAGGTGGGTATCTAAGAAGGCAGCTGTTAATACATTCTCCATCTT
TCCTGTCTGGCAACAGGAAAGATATTATTGGTGAGATAGTGCAAAATGTGAGAATTGGTTATGTTTCGATGATGA
ATAAATTCAAGATTTTTGAAGGCTTCACTGCTATTTGGGATGGGAAGGTGAGTTTACAAAATGAAAAAGGTAGAT
TTTTATGTTACAGAAATCAGTAACGGGTTTCTTGTGTGTTAATTACCTTTCACTTGATTGCCATGATGTTTCT
TCCTCATTATTGATCTAGAAGTTTGCCTCTTGGATAGTAAGTACGCACTTAGTATCTACTTTAAAATTTGTGGCT
TTTTCTTTAGGGTCCCAGGCCATAAAACAACGGAGAGCTGTACTTGCTTGTCTCACTTGGAGGAACCACATCTTG
AGACAGCCTGCTGTCTGTATGTCTTCACTAGGAACTTCTGACACACACATTCAAGGGAGTTCTTGCCCTGAG
AAGTGTTCCTATAGCTTCCAGTCGCAGGTTACTTTCACTACGTCAGCTTCTCTGGTGAGATCAGGGATGTTA
CATATTACTTGAAAATGATTTCTATAGGAAGTGAGGATGGGGCAAGAAAGGAGGTAGAAGCTGAATTTTGCTTAAC
TTCAGAAGGAAATCTGATACTTGCTTGGCTAGTTCTGATCAACTAAAGAGCCTGTGTCTGTACTGGATGTGCCA
AAGAGTCAAGTTGTTTCTGGAATATCCAGCTCCTCTGAATGAACACAGCTTCTTCCCTACCTGTCTTTTATGGGT
GAAAAGGGACCGTCTGATGAGCATGATAGACATCCTGTACAGGACTCAAGACTGTTTCATTGCATTTGAAAGTTG
GTGGGAAGTATTTTATTCTGCTAGAGCTCCTAACCTCCTAGAAATATCTTTTCATGCTCTATTAATTCAATTCA
TTAGTTTTAAAAGAAACAGTGTGACATAATTTGGTGTTTACTTCTTAAGTTGTCTCCCCAAGGGCATATATGTA
GCCTCTGAAAATGGGATGATTTCTTCTCAATCTTCCATAAATTTGAATATGCATTTTATTCAATTCTTGACATGG
GCTGTGTGACTGTTTTCCATCAGCAGTTCTGGCTTTGTCCACAAGGGAGCAATAAAGTACGTTAGCTTTATTCTC
AACCTTCTAAAGAAAGATCCCACTTTTAAATCTCTTCTGGAATAGCCTCTTAGCTCAAAGCTTATTATGTATTT
TGATTATTTAAGAAATTTTCCCTTATTACAAAGTCCAGTCGTCGTTTATCCCTCATGATGCCAAGCAATGATTGA
TGTGTGGGTGTGGAGTCCCTTGTGGGTGAGGCATCTTAATTAATTAGACTTTTACATATTGATGATCCCCAGATT
GAAAGCCAGGACCTTCCCATAGGGGCGCTTTGTGTGCTAAAGGCAGAGCAGGCAGGCTTCTCCACTCCTATCTC
CTCCGCAGGCCACCACCATCATCTATAGGAGGAACAAGAGCACTGGGGGAACCTCTGGAGTATGAGTAAGGAAA
TGCTTCTCACCTTCTCTGCTCCAAAGAGATATCTGTTACATCAGGGAACAAGTCTCTAGGTCAGGCACTTCTCTC
CTGACCAGTGAACGGGCACTCCAGGTTAGAACTGTGTGTGCTCCCTCTCTGTCTAGTTACTTGTCTAAGGGCTC
CTATCCGTGGTCACTAGCTCTCTGGCCATGAGTTCTGTTTGTGCTTATTGCAGCAGCATCTTCAACAAACAGG
TCAGTAATCAACCTGGGAAGGAAAAGACGACAGTAAATATTACCCCTGTAGAGCCGGGAGGCATTTACACCTG
GAATGGCCTTTTAACTGATTTCTGCCTGGCCACCTCACCCCAAGCTGTAACCTGAGCAATACCAGGCAC
AGAGAGGTGTCTACTTGTAACTCCAACACTTGACAAAAACAAACTGAAGCTGTGATTGTTTAGGCAGCAAGT

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FIGURE 1920B

GGCCAGGTGCAACTTGTGTTTTTATTTTTGTTTTCCCCAACAGTACTGAGATCACTTGCACTTTTCCTCATT
CTTAAGAAAATCCAGTTTGCTTGCCATGACTTGTTTAGCGTTAGGTTTACAAAGCTTGTTGTTGAATGTTGAATA
TTTGTCCAAAGGAGTTTGACAAAATAGAAGCTGCTTGGTCCCTGTTCTGCCTGCTAGGTCATAAGGATGAAGGCC
ATGTGGCTGGGGTACTTATGTCAAGTCCAGAATGGGGCAGTGTCCCTCTCCTACCTCTCTGCGGAGACGCAATTG
AAGGTCAAGTAGACTCAGTGTAGGGCAGGCAGCTGTCATGCTGCAAAGAAGTTTAGAGGAGTCTTTGGGTTGGGG
AGGTGACAGGTAGGTAGGACAGGATCTCTTAAGATGGGAAAGATACTGGGGAGAGGAGGGCTGCTTGGCCCCAGG
GAACTGCAGTGAGGTGGAAGTGAAGTCCGCTCCTGAATCTCCAAAGGAGCCCATGCTGCCCGGCTTCCTGAGTC
ATTTTTTCCAGCATCCTGTCAGATCCCTCAATGTACTGATTTCCCCCTTGTGTTAACTATACCGATATTATTTTT
TTAGCAATTGAAATGCACTTTTTTATTTCAACTCAATCATGATTTAAGTATAAAAAATTTATAGATTGTTAAAA
CTACTTTTTTGTGATTTTTTAACCACTCAATGTAGCATTGTATATTTTATTCTTGTGAGACTCTGGTACAGGTGT
GCCGCCTAATGATTTTTCTGAGATGCTGGGCCCTTGGATGTGTACGGTAACCAACTTAATGCTAATGTCAAAGT
ACAAAACAAAAAAAAGGGG

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FIGURE 1921

GGGTCACCTCCGGCCTGCAGGTCAATGTCTTGCACCAGGGCCTTTGGGTGGCATATGACAGTTTGGGACTGTCCA
GTCTCTGTACTTTCTGGGGCCTCTCCTGTTGAATGGCTAGGCACCTGCAGGTGTAGGGGCTCAGGGTCACCTCCG
GCCTGCAGGTCAATGTCTTGTCTCCTGTCTGGGGAGGGCAGCTCTCTCCTAGCCCAACCCAAAAGCCCCCAG
AAGCCTCCACACAGCCAGCTCCGGAGTCTGTCTTGGCTTAGGTGGCTTCAGGACTGGGCCAGGCACCTCCCTCA
CAGGACAATCAGACATGAAGGGTACCTTTCAATCACACAATCCTACACAGTCCTAGACATTAGGTGGGTCTCTG
CCCTCTGCAGGTGACCTCATCAGAGAGCCCAGCAGCATCTGCCCATTTCCTGTCTACATTCTCCTCCCTAGTGCA
CTGGGAGTGGGAGGAGAGCCCCAAGCTCCCCCAGATCTTTAGGAAGCCCCACTGTCAGGCTGAGTGGAGGGCCTT
AGTGACAAGTGATAACTTCAGGGAAGTCCAGAGTGGGAGACACATCTGGGGTCCAGCTTGCTGGTGGGCACTCCC
TGCTCATGCCACAGCCTCGAGGGGAAAAGGTCATAATTGACAGGTGGTTCCTGGGGTCTGAGATCCAGCCAA
GGGATGGGACGACATGCTAGGAAGGGGAAAGTGACAGAAGGTTTCATATGCATCACACACCACTTTGACAAACCCA
TACATAGCATTCACTATAGTGAATAGAAAACTCACGAAGCACCATAGTTCAGCACTTTGCAAATATCCCCAC
CCAATACCTTTGAGGTGAGAGTTACCATCATTGCCTAGTTACTGGTGAGAAAACAGAGGTTCCATGACGTGCCTG
AGGCACTGAGGGGGATGATGTGAGCACTTGTGGCCGCACGTGCAGGCACACGCCCTCCATGTCACACCAAGTGCAC
TCACTTTGCAGATGAGGAGCGATGCCTGAGCACTGGGATGGCATCATTGGCTTGTGTTGGACAGTGCCTATATAG
GAGTCCAGCTTCTACCCACTTGTTCAGTCTATCCACATTTCCACCAACAGAACGAGTTTACTAGAAACCTCTC
CTCAAATTGGTACAAGGACTACATGACATGGCATGTGATGACACACACAGAGGAGATCCTTTTTCCAGCATGC
AGGAAGAGGAGATCCCATACATGGGCTTGGGGGTGGCTTCCCTCACTGCAGTGTCCGGTCCCCCAGCAGCTCTGG
GAGCAGGAGTGACTATCTCCGTTTTGCAGATGAGGAAGCAGAACCATAAAGGTGACCTTTTTCTTTTTCTTTTT
TACATTTAAAGTTAAATTGGTCTCCCTCAAAAAATGCTTAGACTTAATTATTTAATTATCCTCACATATACTC
CTCCGGCTTCTTTACTGAAGTGTAAATTACACACCATCAAACCTTACCATTGAAAACGTGCTATTTCGGTAATCTT
TAGTATAATCATAAGGTTCTGCAACCAACCAACACCATTATCTAATTTACGAACATTTTCATCACCACGAAACA
GAAACCCATACCACA

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FIGURE 1922

GSPPACRSMSCTRAFGWHMTVWDCPVSVLSGASPVWLGTCRCRGSPPACRSMSCCSCPGEGSSLLAQPKSPQ
KPPHSQLRSLSLA

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FIGURE 1923

GGCAAGCTACTGGCACCTGCTGCTCTCAACTAACCTCCACACAATGGTGTTCGCATTTTGGGAAGGTCTTTCTGAT
CCTAAGCTGCCTTGCAGGTCAGGTTAGTGTGGTGCAAGTGACCATCCCAGACGGTTTCGTGAACGTGACTGTTGG
ATCTAATGTCACCTCTCATCTGCATCTACACCACCAGTGTGGCCTCCCGAGAACAGCTTTCATCCAGTGGTCTTT
CTTCCATAAGAAGGAGATGGAGCCAATTTCTATTTACTTTTCTCAAGGTGGACAAGCTGTAGCCATCGGGCAATT
TAAAGATCGAATTACAGGGTCCAACGATCCAGGTAATGCATCTATCACTATCTCGCATAIGCAGCCAGCAGACAG
TGGAATTTACATCTGCGATGTTAACAACCCCCAGACTTTCTCGGCCAAAACCAAGGCATCCTCAACGTCAGTGT
GTTAGTGAAACCTTCTAAGCCCTTTGTAGCGTTCAAGGAAGACCAGAACTGGCCACACTATTTCCCTTTCTCTG
TCTCTCTGCGCTTGGAACACCTTCCCCTGTGTACTACTGGCATAAACTTGAGGGAAGAGACATCGTGCCAGTGAA
AGAAAACCTCAACCCAACCACCGGGATTTTGGTCATTGGAATCTGACAAATTTTGAACAAGGTTATTACCAGTG
TACTGCCATCAACAGACTTGGCAATAGTTCTCGCAAATCGATCTCACTTCTTCACATCCAGAAGTTGGAATCAT
TGTTGGGGCCTTGATTGGTAGCCTGGTAGGTGCCGCCATCATCTCTGTTGTGTGCTTCGCAAGGAATAAGGC
AAAAGCAAAGGCAAAAGAAAGAAATTTCTAAGACCATCGCGGAACCTTGAGCCAATGACAAAGATAAACCCAAGGGG
AGAAAGCGAAGCAATGCCAAGAGAAGACGCTACCCAAGTAAGTAACCTTACCATCTTCCATTTCATGAGACTGG
CCCTGATACCATCCAAGAACCAGACTATGAGCCAAAGCCTACTCAGGAGCCTGCCCCAGAGCCTGCCCCAGGATC
AGAGCCTATGGCAGTGCCTGACCTTGACATCGAGCTGGAGCTGGAGCCAGAAACGCAGTCGGAATTGGAGCCAGA
GCCAGAGCCAGAGCCAGAGTCAGAGCCTGGGGTTGTAGTTGAGCCCTTAAGTGAAGATGAAAAGGGAGTGGTTAA
GGCATAGGCTGGTGGCCTAAGTACAGCATTAAATCATTAAAGGAACCCATTACTGCCATTTGGAATTCAAATAACCT
AACCAACCTCCACCTCCTCCTTCCATTTTGACCAACCTTCTTCTAACAAGGTGCTCATTCTTACTATGAATCCAG
AATAAACACGCCAAGATAACAGCTAAATCAGCAAGGGTTCTGTATTACCAATATAGAATACTAACAATTTTACT
AACACGTAAGCATAACAAATGACAGGGCAAGTGATTTCTAACTTAGTTGAGTTTTGCAACAGTACCTGTGTTGTT
ATTTGAGAAAATATTATTTCTCTCTTTTAACTACTCTTTTTTTTTTATTTTAGACAGAGTCGCTTGAGCCCAGGA
GGTGGAGGTTGCAGTGGGCCGAGATTGTGCCACTGCACTCCAACCTGGGTGACAGAGTGAGATTCCATCTGAAAA
ACAAAAACAAAAACAGAAAACAAACAAACAAAAACAAAAATCCCCACAACCTTTGTCAAATAATGTACAGGCAA
ACACTTTCAAATATAATTTCTTTCAGTGAATACAAAATGTTGATATCATAGGTGATGTACAATTTAGTTTTGAAT
GAGTTATTATGTTATCACTGTGTCTGATGTTATCTACTTTGAAAGGCAGTCCAGAAAAGTGTTCTAAGTGAACCT
TTAAGATCTATTTTAGATAATTTCAACTAATTAATAACCTGTTTTACTGCCTGTACATTCCACATTAATAAAGC
GATACCAATCTTATATGAATGCTAATATTACTAAATGCACTGATATCACTTCTTCTTCCCCTGTGAAAAGCTT
TCTCATGATCATATTTACCCACATCTCACCTGAAGAACTTACAGGTAGACTTACCTTTTCACTTGTGGAATT
AATCATATTTAAATCTTACTTTAAGGCTCAATAAATAATACTCATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1924

QVSVVQVTIPDGFVNVTVGSNVTLCIYTTTASREQLSIQWSFFHKKEMEPISIIYFSQGGQAVAIGQFKDRITG
SNDEPGNASITISHMQPADSGIYICDVNNPPDFLGQNQGILNVSVLVKPSKPLCSVQGRPETGHTISLSCLSALGT
PSPVYYWHKLEGRDIVPVKENFNPTTGILVIGNLTNFEQGYQCTAINRLGNSSCEIDLTSSHPEVGIIVGALIG
SLVGAAIIISVVCFARNKAKAKAKERNKSTIAELEPMTKINPRGESEAMPREDATQLEVTLPSIHEGPDITQIE
PDYEPKPTQEPAPAPGSEPMVDPDLIELELEPETQSELEPEPEPEPESEPGVVVEPLSEDEKGVVKA

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FIGURE 1925

CAAGGATAGAATATTTCTGTGGTTTTTCAGGTGGTTTTCCAAGATTTGTCATTTCAGATTTATAATACCCAACTTA
ATTATTTTCAGTGACATGGTGAAAGTGATCAGGATACCATTTTCGCTTACTCTCAGAGTTTATGTAGGGCCCTTTT
GGGATTCAGTGTCTCCGTTCCACTGCACAAAATTGCAAGCAACGTGTATTTAATGATTTCAGCTGATAAGCCCTTC
CTTTTATGAACATATGAGTTAGTATTAATAATGAAGGGTTGGGATTTCTTAACTTTTTAGCCATTTAATCTTTTAA
ATGGGATCAAGCAACAGAATGTAGCAGAAGAGTATTATGAAAATGAGAACATTGAAAGATAATGTTGATGCTTGA
TTCTTTTCACTTAATAAGGTGTCTGAGTATTTAATGATTTTGTGTTTGTAGTTCAATTACCGTAGAACAACTCTACTT
AACGCTAGATTGTCTGTCTCGGGACCATGATGATTCTCAAATAAATATTGTATTTACCAATTCTACTCTTAATTTTT
TTAAAACTAAAGACAAGACAAAAAGTAGATGTCTCTATAATACATTTATATGAAATTAAATTTTCTTAGTTTAT
TTTTGCTTTAGAAATGCCAGTTGTAATCAAAGGACCATTTGGCAAGACACTGGCCATTAGTAAGGCATCAAACCTTG
AGCTTTGCTTTTACTTTAAAAAGTTATACCATGCAAGGATAGAAGTAGACATAGGCATTACATAATCCCCTGTA
CATCCTCCAGAGGGGTTTTGTCTGATGAATTTCCCCCAAAGGGCCTCTTAGTTACCATCAGCTTCTCTTTGGGAC
ATATATATTTCTGACTGTGGTCATTTGTTAAGGAGAAGTTTAGCAGACGTTATTAATCAAATACATTTAAGAGAG
CTATTGCTTTTCACTTTCTCCCATGATGTAATGCTCTTATAATAACAGGTTTTGTGGGGTCTCTTTATACAAC
ATCTGATGACAATATTTCTTCTTCTTGTAAAGCTCAGTTAAACATCTTTTCACTTCCCATCTGATAAGTGCTAGCTG
CTGATTTTTTTTGTCTCAGTATCTCCATTTATATCAATTTATTTTCTCTCTAGAGCAGCGCATCAGGCTGCTCTCT
CGTGAATATATTGTTACTTTTTTTCTGGCACTGGAATATACAACATCCATGACAGCAAAATTTGAGGGCCATATT
GAGATCACCGGCTGATATGCTGACCATGTAAATATAAGTTTAAATTGCTTAGTTCCACGTTAGAATAGTTTAATC
AATTTCTGTCCCAGAACTGGATATGAAACAGGTTAGATGAGGAAGCTTATATGGAAAAAATTATCTTTTCATCC
TCTCCACATATACATTTTCTGAGACTAGGTCATATGTATATTCATTTTGTACACATTGGGGAATTGGCATAGT
AATTTATTCAACAAACATTAATTAGCACATTCCCTTGTGACAAATCTGTAAAA

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FIGURE 1926

RIEYFLWFFRWFPREFVIQIYNTQLNYFSDMKVYQDTISLTLRVYVGPFWDVSVSPFHCTKLQATCI

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FIGURE 1927

AAAAAAAAAAGAATACCATGGTAGCACAGTCATACCCTTTAATGGCTCACATTGTTCAAACAGCATGATATTAA
CTTTTTTTTTAAATCAAAGCACAAATGCTTCATGCATATAACTTAAAGAGTTTTAGATATTTTAAAGTTAGAAATG
CCAAAAATATAAAACCATGAAGAAAAATTTCTATAGAAGTTAGGAAATTAAAAATCGATCATAAGGGAAGCATC
TCAGGTTTTATTGCAGTATTTGGAGATGAAAAATGACTTTCTATTGACACGATTTGTTATTTTCAGCAAAATAGA
AGTCTGTCAGTCTAATGTTGGATGATCTGATAGTCTTTGCAAGAAATAATTGCAGAGAGTTTCTGCAATCACTGG
GAAATAGAAATCTATAAAAACATCTGAAAAAGTGTGAGACTGGGCCACTGCCTAGGGGGATAGCCCTGTTATTTTCA
TATGGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCTCTGAAAAGGAAATTCTTAATTCCTGTATTTACAGTGCCTTTTTCA
GTAGGTTTTTCTCTGCAAAGGGTGCTTGTGAGTTACTTTGCTTTAATGGATAAAATCTCAATTTCCAGGCCAAATG
TAACTTTTTTTGGTCTTACATCTTGATTTACTTTGTACTTAAAGAGGTTTTTTCTCCCTGTAATATTTTTAAAGCTT
TTAAATTAACCTTCAGCTTAAAGACAATATAAGTATGAATTTCTGTTTCCAGCCTTGTAGTTCTGACTGTATTTG
TCAATGGTTTCTATATTAACGATAGCATTGTTCCATTGTGTAATCCTAAAGTTAAAAATTCTAAGAATGAGAAAA
ACAGCTATGAATAAATTATAAGTGAAAGATAGAAAAACACATATTTCTATACTAAATATTGAGAGCTTTGTATT
TTTCAAGTTGGAATCAATATATTGAGAACTGACTTTAAATTTTAAACTCTTATGCTGAGAAACCCTGACAGGTA
GGTAAACCCGTTTGTCTACATAAGATGTTAGCAGTGTAGTATTGTGCACATCAAGCATGTTACAAAACTCTAAG
TTATTCTCTGAAGATACATAAGTTTTACTAGAGATACTCTGGATTTATTAGTCCTGCAAAGCCATT

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FIGURE 1928

KKKEYHGSTVIPFNGSHCSNSMILTF

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FIGURE 1929

GTTATGATCAAATTAGACTGTGCCTGATTGGGTGGTAAGATCACTCTGAAAGAAAGCTCACTGTGAAGAGATGAA
AGGTGGAGGCAGAGCTGTGAGGTCATGGGGAAAAGCCTGCTTTTCCTTATAAGTCCTGCTGTTTCATGTTGGAATAA
GGATCTGCTCTTCCTTGTTTCCATGCATTTTGCAGGATTCCAGGTACCATTACCACACTCTTCTGACCCATGAAA
CCAAGTGGCTGCTCACACATCACCAAACAGGTTGGGGGTTAGCCTTCAGCACAGGTGGATACATCTGGGATTAC
TGAGATTCCCTGCCCTCTCCTGCTTCTAGTGGTTTGGGACAGGCCCTCTGCCCATCGTCAGCAGTTTTTTGCTTT
CATACAAACCTGGAAGGCACTGGCATCTGCCTAGGAAAGTGGATCTGTGAAGAACAGATGAAGTCAATCCTTTCT
GGAGTCTGACAAAGAAGGGATAGGCTTCCTTGACATTGCCTGGTCTGACAAGGCCTCCCTGACATTACTCCTCC
AATTTACAGTTACCTTCTGTAAATCTATTTTCTCATCTACTGAATAGAATCAGGCGCCCTTTTGTCTTCCCAC
CTCTTATCTCTTGGCAATTTTAAGGGGAATTAATGCAAGAACAACCTTAGTGTCTCTTGGGAAAACAAGCCAACC
AAATACAAACCCATTAAGCCTACTAGGGTGAGTCTCTTAACATGGGAAGGCGATGATTATGCAAACACCAGAG
TTCCCTCCTCTTCAGTTCCCTAAGAATAAAGAACAGGTATCAAGAACCTTCTTTAAAGTTAGTGTAAGTATAGTTA
ACAAAGTATCCATTGAAGTTTAGTGCCTGTAGGACTGAGCCAGTGCTTTATCAACCCAAACATCATCACCATGT
GCATACTCTAGAAAAAAAATAGCTTCTTTAAAGTTACAGAGGCTCTTAACGTGTTAAACCGAAAAATCACAT
TTTTCTTGATTTCAAATATGTTCTACGGCCTTACTGTGGGATGATATTTAGTATGTAAGTATGCAATTTCAATTT
CTCAAGAATTTTTAGGCCGGGTGCGGTGGCTCATGCCTGTAGTCCC

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FIGURE 1930

MKGGGRAVRSWGKACFPYKSCCSCWNKDLLFLVSMHFAGFQVPLPHSSDP

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FIGURE 1931

AAGATATAAAAGCTCCAGAAACGTTGACTGGGACCACTGGAGACACTGAAGAAGGCAGGGGCCCTTAGAGTCTTG
GTTGCCAAACAGATTTGCAGATCAAGGAGAACCCAGGAGTTTCAAAGAAGCGCTAGTAAGGTCTCTGAGATCCTT
GCACTAGCTACATCCTCAGGGTAGGAGGAAGATGGCTTCCAGAAGCATGCGGCTGCTCCTATTGCTGAGCTGCCT
GGCCAAACAGGAGTCTGGGTGATATCATCATGAGACCCAGCTGTGCTCCTGGATGGTTTTACCACAAGTCCAA
TTGCTATGGTTACTTCAGGAAGCTGAGGAAGTGGTCTGATGCCGAGCTCGAGTGTGAGTCTTACGGAAACGGAGC
CCACCTGGCATCTATCCTGAGTTTAAAGGAAGCCAGCACCATAGCAGAGTACATAAGTGGCTATCAGAGAAGCCA
GCCGATATGGATTGGCCTGCACGACCCACAGAAGAGGCAGCAGTGGCAGTGGATTGATGGGGCCATGTATCTGTA
CAGATCCTGGTCTGGCAAGTCCATGGGTGGGAACAAGCACTGTGCTGAGATGAGCTCCAATAACAACTTTTAAC
TTGGAGCAGCAACGAATGCAACAAGCGCCAACACTTCCTGTGCAAGTACCGACCATAGAGCAAGAATCAAGATT
TGCTAACTCCTGCACAGCCCCGTCTCTTCTTTCTGCTAGCCTGGCTAAATCTGCTCATTATTTAGAGGGGAA
ACCTAGCAAACCTAAGAGTGATAAGGGCCCTACTACACTGGCTTTTTTAGGCTTAGAGACAGAACTTTAGCATTG
GCCCAGTAGTGGCTTCTAGCTCTAAATGTTTGGCCCGCCATCCCTTTCCACAGTATCCTTCTTCCCTCCTCCCT
GTCTCTGGCTGTCTCGAGCAGTCTAGAAGAGTGCATCTCCAGCCTATGAAACAGCTGGGTCTTTGGCCATAAGAA
GTAAAGATTTGAAGACAGAAGGAAGAACTCAGGAGTAAGCTTCTAGACCCCTTCAGCTTCTACACCCTTCTGCC
CTCTCTCCATTGCCTGCACCCACCCAGCCACTCAACTCCTGCTTGTTTTTCTTTGGCCATAGGAAGGTTTAC
CAGTAGAATCCTTGCTAGGTTGATGTGGGCCATACATTCCTTTAATAAACCATTTGTGTACATAAGAAAAAAAAA

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FIGURE 1932

MASRSMRLLLLLSCLAKTGVLGDIIMRPSCAPGWFYHKSNCYGYFRKLRNWSDAELECQSYGNGAHLASILSLKE
ASTIAEYISGYQRSQPIWIGLHDPQKRQQWQWIDGAMYLYRSWSGKSMGGNKHCAEMSSNNNFLTWSSNECNKRQ
HFLCKYRP

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FIGURE 1933

CACCGGTCCCCCTTCCTGCCAACGCTGCATTGGCTCGGGCCCGGTCCATGGCGGCCCTCGGACCCTGCGCTGA
GCCCCGAGGCCAGGGCGTCCGGGGCTGCGCCACTTCCGAGGGCCGAGCGCTGCCGGTCCCGGCGGTGCGACACG
GCCCCGAGGAGGAGAACAAACGCAAGGGGCTCAACCGTCGGTTCGCTGGAGCCCCCCCCGGGGCGTGGCCTCCCGCC
CCCTCAGCTGGGGAGGGCGGGGCTCGCTGCCCCCTGCTGCCGACTGCGACCCTTACAGGGGAGGGAGGGCGCAGG
CCGCGCGAGATGAGGAGGAGGCTGCGCCTACGCAGGGACGCATTGCTCACGCTGCTCCTTGGCGCCTCCCTGGG
CCTCTTACTCTATGCGCAGCGCGACGGCGCGCCCCGACGGCGAGCGCGCCGCGAGGGCGAGGGAGGGCGGCACC
GAGGCCACCCCCGACCCCGCGCGTTCCAGTTACCCGACGCGGGTGCAGCCCCCGCGGCTACGAAGGGGACAC
ACCGGCGCGCCCCACGCCTACGGGACCCTTTTACTTCGCCCCGCTATTTGCGCGCCAAGGACCAGCGCGGTTTC
CACTGCTCATTAAACAGCCGCACAAGTGCCGCGCGCAGCGCGCACCCGGTGGCGCCCGGACCTGCTTATTGCTG
TCAAGTCGGTGGCAGAGGACTTCGAGCGGCGCCAAGCCGTGCCGACAGCTGGGGCGCGGAGGGTTCGCTGACAGG
GGGCGCTGGTGGCGCCGCGTGTCTTGGTGGCGTGGCCAGGGGCGCAGGCTCGGGCGGGGCGACGAAGTTGGGG
AGGGCGCGCAACCCACTGGCGCGCCCTGCTGCGGGCCGAGAGCCTTGCGTATGCGGACATCTGCTCTGGGCTT
TCGACGACACTTTTTTAACCTAACGCTCAAGGAGATCCACTTTCTAGCCTGGGCTCAGCTTTCTGCCCCGACG
TGGCTTTCGTTTTTAAGGGCGACGCAGATGTGTTCTGTAACGTGGGAAATCTCCTGGAGTTCTTGGCGCCGCGG
ACCGGCGCAAGACCTGCTTGTGGTGACGTAATTGTGCATGCGCGGCCATCCGCACGCGGGCTAGCAAGTACT
ACATCCCCGAGCCGTGTACGGCTGCGCGCTATCCGGCTACGCGGGCGGCGGTGGCTTTGTGCTTTCCGGG
CCACGCTGCACCGCTGGCTGGCGCTGTGCGCAGGTGAGCTCTTCCCCATCGACGACGTCTTTCTGGCATGT
GTCTGCAGCGCTGCGGCTCACGCCCCGAGCCTACCCCTGCTTCCGCACCTTTGGCATCCCCAGCCTTCAGCCG
CGCCGATTGTAGCACCTTCGACCCCTGCTTTTACCGTGAGCTGGTTGTAGTGCACGGGCTCTCGGCCGTGACA
TCTGGCTTAAGTGGCGCTGCTGCACGGGCGCATGGGCCAGCCTGTGCGCATCCACAGCCTGTGCTGCAGGCC
CCTTCCAATGGGACTCCTAGCTCCCCACTACAGCCCCAAGCTCCTAACTCAGACCCAGAATGGAGCCGGTTTCCC
AGATTATTGCCGTGTATGTGGTTCTTCCCTGATCACCAGGTGCCTGTCTCCACAGGATCCAGGGGATGGGGTT
AAGCTTGGCTCCTGGCGGTCCACCCTGCTGGAACAGTTGAAACCCGTGTAATGGTGACCTTTGAGCGAGCCAA
GGCTGGGTGGTAGATGACCATCTCTTGTCCAACAGGTCCAGAGCAGTGGATATGTCTGGTCTCCTAGTAGCAC
AGAGGTGTGTTCTGGTGTGGTGGCAGGGACTTAGGGAATCCTACCACTCTGCTGGATTGGAACCCCTAGGCTG
ACGCGGACGTATGCAGAGGCTCTCAAGGCCAGGCCCCACAGGGAGGTGGAGGGGCTCCGGCCGCCACAGCCTGAA
TTCATGAACCTGGCAGGCACTTTGCCATAGCTCATCTGAAAACAGATATTATGCTTCCACAACTCTCCTGGGC
CCAGGTGTGGCTGAGCACCAAGGATGGAGCCACATAAGGGACAAATGAGTGCACGGTCTACCTAGTCTTTCC
TCACCTCCTGAACCTCACACAACAATGCCAGTCTCCCACTGGAGGCTGTATCCCCCTCAGAGGAGCCAAGGAATGT
TTCCCTGAGATGCCACCACTATTAATTTCCCATATGCTTCAACCACCCCTTGCTCAAAAAACCAATACCCAC
ACTTACCTTAATACAAACATCCCAGCAACAGCACATGGCAGGCCATTGCTGAGGGCACAGGTGCTTTATTGGAGA
GGGGATGTGGGCAGGGGATAAGGAAGGTTCCCCCATTCAGGAGGATGGGAACAGTCTGGCTGCCCCGTGACAGT
GGGGATATGCAAGGGGCTCTGGCCAGGCCACAGTCCAAATGGGAAGACACCAGTCAGTCACAAAAGTCGGGAGCG
CCACACAAACCTGGCTATAAGGCCAGGAACCATATAGGAGCCTGAGACAGGTCCCCTGCACATTTCATCATTAAA
CTATACAGGATGAGGCTGTACATGAGTTAATTACAAAAGAGTCATATTTACAAAAATCTGTACACACATTTGAAA
AACTCACAAAATTGTCTATCTATGTATCACAAGTGCTAGACCAAAATATTAAAAATGGGATAAAATTATAAAAAA
AAAAAAAAAAAA

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FIGURE 1934

MRSATARPRRRARREGEGRHRGPPDPARSSYPTRVQPRRPTKGTHRRRPRLRDPDFARYLRAKDQRRFPLLI
NQPHKCRGDGAPGGRPDLLIAVKSVAEDFERRQAVRQTWGAEGRVQCALVRRVFLGVPRGAGSGGADEVGEGAR
THWRALLRAESLAYADILLWAFDDTFFNLTLEIHFLAWASAFCDVRFVFKGDADVFNVGNLLEFLAPRDPAQ
DLLAGDVI VHARPIRTRASKYYIPEAVYGLPAYPAYAGGGGFVLSCATLHRLAGACAQVELFPIDDVFLGMCLQR
LRLTPEPHPAFRFTFGIPQPSAAPHLSTFDPCFYRELVVVHGLSADIWLMWRLLHGPHGPACAHQPVAAGPFQW
DS

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FIGURE 1935

AACGAAGCGTGCGCGCTTTGGTAACGGGCTAGAAATCCCGCACGCGCGCCTGCCTCCTCTCCCCAGGCCTGAGCT
GCCCCCTCCCACTGCCTTTCTTCTTCCCGCGAGTCAGAAGCTTCGCGAGGGGCCAGAGAGGCGGTGGGGTGGGCG
ACCCTACGCCAGCTCCGGGCGGGAGAAAGCCCCACCCTCTCCCGCGCCCCAGGAAACCGCGGCGTTCCGGCGCTGC
GCAGAGCCATGGAAATTCTCCTGGCTGGAGACGCGCTGGGCGCGGCCCTTTTACCTGGCGTTCTGTCTTCGCTGG
CCCTGGGGCTGCTGCAGGCCATTAAGCTGTACCTGCGGAGGCAGCGGCTGCTGCGGGACCTGCGCCCCCTCCCAG
CGCCCCCACCACCTGGTTCCCTTGGGCACCAGAAGTTTATTTCAGGATGATAACATGGAGAAGCTTGAGGAAATTA
TTGAAAAATACCCCTCGTGCCCTTCCCTTTCTGGATTGGGCCCTTTTCAGGCATTTTTCTGTATCTATGACCCAGACT
ATGCAAAGACACTTCTGAGCAGAACAGATCCCAAGTCCAGTACCTGCAGAAATTCTCACCTCCACTTCTTGAA
AAGGACTAGCGGCTCTAGACGGACCCAAGTGGTTCAGCATCGTCGCTACTAATCCTGGATTCCATTTTAACA
TCTTGAAAGCATACTTGAGGTGATGGCTCATTCTGTGAAAATGATGCTGGATAAGTGGGAGAAGATTTCAGCA
CTCAGGACACAAGCGTGGAGGTCTATGAGCACATCAACTCGATGTCTCTGGATATAATCATGAAATGCGCTTTCA
GCAAGGAGACCAACTGCCAGACAAACAGCACCCATGATCCTTATGCAAAAGCCATATTTGAACTCAGCAAAATCA
TATTTACCGCTTGTACAGTTTGTGTATCACAGTGACATAATTTTCAAATCAGCCCTCAGGGCTACCGCTTCC
AGAAGTTAAGCCGAGTGTGAATCAGTACACAGATACAATAATCCAGGAAAGAAAGAAATCCCTCCAGGCTGGGG
TAAAGCAGGATAACACTCCGAAGAGGAAGTACCAGGATTTTCTGGATATTGTCTTTCTGCCAAGGATGAAAGTG
GTAGCAGCTTCTCAGATATTGATGTACACTCTGAAGTGAGCACATTCTGTGGCAGGACATGACACCTTGGCAG
CAAGCATCTCCTGGATCCTTTACTGCCTGGCTCTGAACCCTGAGCATCAAGAGAGATGCCGGGAGGAGGTGAGGG
GCATCCTGGGGGATGGGTCTTCTATCACTTGGGACCAGCTGGGTGAGATGTCTGTACACCACAATGTGCATCAAGG
AGACGTGCCGATTGATTCTGAGTCCCGTCCATTTCCAGAGATCTCAGCAAGCCACTTACCTTCCAGATGGAT
GCACATTGCCTGCAGGGATCACCGTGGTTCTTAGTATTTGGGGTCTTCACCACAACCCTGCTGTCTGGAAAAACC
CAAAGGTCTTTGACCCCTTGAGGTCTCTCAGGAGAATTCTGATCAGAGACACCCCTATGCCTACTTACCATTCT
CAGCTGGATCAAGGAACTGCATTGGGCAGGAGTTTGCCATGATTGAGTTAAAGGTAACCATTGCCTTGATTCTGC
TCCACTTCAGAGTGACTCCAGACCCACCAGGCCTCTTACTTTCCCAACCATTTTATCCTCAAGCCCAAGAAATG
GGATGTATTTGCACCTGAAGAACTCTCTGAATGTTAGATCTCAGGGTACAATGATTAAACGTACTTTGTTTTTC
GAAGTTAAATTTACAGCTAATGATCCAAGCAGATAGAAAGGGATCAATGTATGGTGGGAGGATTGGAGGTTGGTG
GGATAGGGGTCTCTGTGAAGAGATCCAAATCATTCTAGGTACACAGTGTGTGAGCTAGATCTGTTTCTATATA
ACTTTGGGAGATTTTCAGATCTTTTCTGTAAACTTTCACTACTATTAATGCTGTATACCAATAGACTTTTCAT
ATATTTTCTGTTGTTTTTAAATAGTTTTTCAAGATTATGCAAGTAATAAGTGCATGTATGCTCACTGTCAAAAT
TCCCAACACTAGAAATCATGTAGAATAAAAAATTTAAATCTCACTTCACTTAGCCGACATTCATGCCCTGACC
AATCCTACTGCTTTTCTAAAAACAGAATAATTTGGTGTGATTCTTTTCTAGACTTTTTCTATACATTTTATATG
TAGAAATGTAGCAATGTATTGTATAGATGTGATCATTCTATATTGTTATTGATTTTTTCACTTAATAAAAAAT
TCACCTTATTCCTTAAAA

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FIGURE 1936

MEFSWLETRWARPFYLAFFVCLALGLLQAIKLYLRRQRLLRDLRPFPPAPPTHWFLGHQKFIQDDNMEKLEEII EK
YPRAFFFWIGPFQAFFCIYDPDYAKTLLSRTDPKSQYLQKFSPLLKGKGLAALDGPKWQHRRLTPGFHFNILK
AYIEVMAHSVKMLDKWEKICSTQDTSVEVYEHINSMSLDIIMKCAFSKETNCQTNSTHDPYAKAIFELSKIIFH
RLYSLLYHSDIIFKLSPOGYRFQKLSRVLNQYTDITIIQERKKSQAGVKQDNTPKRKYQDFLDIVLSAKDESGSS
FSDIDVHSEVSTFLLAGHDTLAASISWILYCLALNPEHQERCREEVRGILGDGSSITWDQLGEMSYTTMCIKETC
RLIPAVPSISRDLSPKPLTFPDGCTLPAGITVVLISWGLHHNPAVWKNPKVFDPLRFSQENSQDRHPYAYLPFSAG
SRNCIGQEFAMIELKVTIALILLHFRVTPDPTPLTFPNHFIKPKNGMYLHLKKLSEC

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FIGURE 1937

GTTTTTTTCCCTTCTGAGCAATGGAGCTTACCATCTTTATCCTGAGACTGGCCATTTACATCCTGACATTTCCCT
TGTACCTGCTGAACCTTTCTGGGCTTGTGGAGCTGGATATGCAAAAAATGGTTCCCTACTTCTTGGTGAGGTTCA
CTGTGATATACAACGAACAGATGGCAAGCAAGAAGCGGGAGCTCTTCAGTAACCTGCAGGAGTTTGCGGGCCCCCT
CCGGGAAACTCTCCCTGCTGGAAGTGGGCTGTGGCACGGGGGCCAACTTCAAGTTCTACCCACCTGGGTGCAGGG
TGACCTGTATTGACCCCAACCCCAACTTTGAGAAGTTTTTGTATCAAGAGCATTGCAGAGAACCGACACCTGCAGT
TTGAGCGCTTGTGGTAGCTGCCGGGGAGAATGCACCAGGTGGCTGATGGCTCTGTGGATGTGGTGGTCTGCA
CCCTGGTGCTGTGCTCTGTGAAGAACCAGGAGCGGATTCTCCGCGAGGTGTGCAGAGTGTGAGACCGGGAGGGG
CTTTCTATTTCATGGAGCATGTGGCAGCTGAGTGTTCGACTTGGAACTTCTTCTGGCAACAAGTCTGGATCCTG
CCTGGCACCTTCTGTTTGTATGGGTGCAACCTGACCAGAGAGAGCTGGAAGGCCCTGGAGCGGGCCAGCTTCTCTA
AGCTGAAGCTGCAGCACATCCAGGCCCACTGTCTGGGAGTTGGTGCGCCCTCATATCTATGGATATGCTGTGA
AATAGTGTGAGCTGGCAGTTAAGAGCTGAATGGCTCAAAGAATTTAAAGCTTCAGTTTTACATTTAAATGCTAA
GTGGGAGAAGAGAAACCTTTTTTTTGGGGGGCGGTTTTTTTGGTTTGTGTTGGTTTTTTTTTTTTTTTGGCAA
GACTCCGTCTCAAAAAAAAAAAAAAAAAAAAAAGAGTAGAGACAGGGAGACAGGGTCTCACTGTGTTGCCTAG
GCCGGTCTTGAACCTCTGGGCTCAAGTGATTCTCCACCTTGACCTCCTAAATTGTTGGGATTACAGGTGTGAGA
CAGTGCACCTGGCCGAAATAGCTCAAGTTTCTGAAAAACAAATCTGAATCTATTTGTTATTCTTAGCGTCACTGG
TCTGGCTTTTCAAGATTAACATACAAGGTTGCCACACCTAGTTCTGCCCAGCTTTATGCTTTTATTCCAGTATTC
CACCAAAGTTTGTCTTCTGCATTCCAGTTCTCAAGTCTTAAGATAAAGATTGTACTTGACAGTTTAGTATATCC
ATAAACTATTTGAGGTGGTTAAGGTTCTTGGGTTCAATTTCTTAATACCTTGCTGAATATTGTAGATTGTAGG
CAATGAAAAGTCTACTAAATTAGGAAAACCTTGAATAATTAGGTATCCTAGGTAAGAGCCCCCTAAACATCAAGC
AATCTGTGAGTCTGTAAAGAAATAAATATTTTTTGGATTATTCTTATCTAATTCCACCCCTGTGGAAGATGATT
TCTTTGTTCTTTGCAACTATGGAAGCTGTGAAATCATCACAAGTGCCTCTGAAAGCGAGTGTAGGTTGGTTAG
AGGGTTTAATATTTTCTGCAATGGTTTGTAGGAATTTAATAAATGTAGTATATTTCTGAGATGATTTTGTAAA
AGTACTATTTTAAATATCAAATCAACCAATAAATTCACATTTGTGTTAGGAACAG

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FIGURE 1938

MELTIFILRLAIYILTFFPLYLLNFLGLWSWICKKWFPYFLVRFTVIYNEQMASKKRELF SNLQEFAGPSGKLSLL
EVGCGTGANFKFYPPGCRVTCIDPNPNFEKFLIKSIAENRHLQFERFVVAAGENMHQVADGSVDVVCTLVLC SV
KNQERILREVCRLRPGGAFYFMEHVAAECSTWNYFWQQVLDPAWHLLFDGCNLTRESWKALERASF SKLKLQHI
QAPLSWELVRPHIYGAVK

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FIGURE 1939

AAAGAAACCCGAGACGTTCCGAAGTCAACGCAAGCAAAGGGGAGTGCGGGTGCGGGGAGGAATATTCTTTTGAAA
CGTAATATTGGCCTTGGGGCTCTCCAGCCCTTTGGGACTTCCAATGGGATCTTAGAAGCAGCCGAAGCAGCGTGA
GGCGGGCAGCCAGGGCCAGCCACGATTTGAACGCTCTGCCTTGCAGCTCTTCTGGACCGAGGAGCCCAAAGCCC
TACCCTCACCATTACCAGGTCTGTGGGAAGAGCAGCGTGGAGGTGGGCTGAGGTTAGAAGGTGCAGAGCGTGG
AAGAAGATTGTGAGCTGAGTATTGGACATCTGTTCTTGAATAGTCCCTGGGCCTGCCATAGGAAAGGAAGTTCTC
CAGGGTTACAGTTCTTATCCGCGTGAATACACATGGCTCTGTTACGAAAAATTAATCAGGTGCTGCTGTTCTTTC
TGATCGTGACCTCTGTGTGATTCTGTATAAGAAAGTTTCATAAGGGGACTGTGCCCCAAGAATGACGCAGATGATG
AATCCGAGACTCCTGAAGAAGTGAAGAAGAGATTCTGTGGTGATTGTGCTGCAGCAGGGAGGATGGGTGCCA
CTATGGCTGCCATCAATAGCATCTACAGCAACACTGACGCCAACATCTGTTCTATGTAGTGGGACTCCGGAATA
CTCTGACTCGAATACGAAAATGGATTGAACATTCCAACTGAGAGAAAATAAACTTTAAATCGTGGAATTCAACC
CGATGGTCCCTCAAAGGGAAGATCAGACCAGACTCATCGAGGCCTGAATTGCTCCAGCCTCTGAACCTTTGTTTCGAT
TTTATCTCCCTCTACTTATCCACCAACACGAGAAAGTCATCTATTTGGACGATGATGTAATTGTACAAGGTGATA
TCCAAGAAGTGTATGACACCACCTTGGCCCTGGGCCACGCGGGGCTTTCTCAGATGACTGCGATTGGCCCTCTG
CTCAGGACATAAACAGACTCGTGGGACTTCAGAACACATATATGGGCTATCTGGACTACCGGAAGAAGGCCATCA
AGGACCTTGGCATCAGCCCCAGCACCTGCTCTTTCAATCCTGGTGTGATTGTTGCCAACATGACAGAATGGAAGC
ACCAGCGCATCACCAGCAATTGGAGAAATGGATGCAAAAGAATGTGGAGGAAAACCTCTATAGCAGCTCCCTGG
GAGGAGGGGTGGCCACCTCCCCAATGCTGATTGTGTTTCATGGGAAATATTCCACAATTAACCCCTGTGGCACA
TAAGGCACCTGGGCTGGAATCCAGATGCCAGATATTCGGAGCATTTTCTGCAGGAAGCTAAATTACTCCACTGGA
ATGGAAGACATAAACCTTGGGACTTCCCTAGTGTTCACAACGACTTATGGGAAAGCTGGTTTGTTCCTGACCCTG
CAGGGATATTTAACTCAATCACCATAGCTGATATAACTCTACCCTTAAATATTCCCTGTATAGAAATGTGGAA
TTGTCCCTTTGTAGCCAACTATAACATTGTTCTTTATGAATATTACCTTTGATACATATGATCCACAATATAAAA
ACCAAAAACTACTGTGTGCAAATTATACCTTGGACCATATAGGCATTGATTAACCTCTTTAAGTACATGTGATAA
CTATGGAAATCAAGATTATGTGACTGAAAAACATAAAGGAAGAGACCCATCTAGATAACAGCAATCAACCTGCTT
AATTCTGAATGACAATTATATCCACAAATTTTAAACTTCTACATGTATTTTCACATGAAGATCTCCTTAACA
GGTTGCCAACCTTTTCTTTTATAAACTATTACATTTAAATATGGACGTCTGAAAAATAAAATATTCATCATT
TTACAAAAA

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FIGURE 1940

MALLRKINQVLLFLLIVTLCVILYKKVHKGTVPKNDADDESETPEEEEEIPVVICAAAGRMGATMAAINSIYSN
TDANILFYVVGRLNTLTRIRKWIEHSLREINFKIVEFNPMVLKGKIRPDSSRPPELLQPLNFVRFYLPPLIHQHE
KVIYLDLDDVIVQGDIIQELYDTTLALGHAAAFSDDCDLPQAQDINRLVGLQNTYMGYLDYRKKAIKDLGISPSTCS
FNPGVIVANMTEWKHQRIITKQLEKWMQKNVEENLYSSSLGGGVATSPMLIVFHGKYSTINPLWHIRHLGWNPDAR
YSEHFLQEAKLLHWNGRHKPWDFPSVHNDLWESWFPDPAGIFKLNHHS

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FIGURE 1941

TACTTCTAAATAAATGAATTACTCAATCTCCTATGACCATCTATACATACTCCACCTTCAAAAAGTACATCAATA
TTATATCATTAAAGGAAATAGTAACCTTCTCTTCTCCAATATGCATGACATTTTTAGACAATGCAATTGTGGCACT
GGCACTTATTTTCAGTGAAGAAAACTTTGTGGTTCTATGGCATTTCATCATTTGACAAATGCAAGCATCTTCTCTTA
TCAATCAGCTCCTATTGAACTTACTAGCACTGACTGTGGAATCCTTAAGGGCCCATTACATTTCTGAAGAAGAAA
GCTAAGATGAAGGACATGCCACTCCGAATTCATGTGCTACTTGGCCTAGCTATCACTACACTAGTACAAGCCGTA
GATAAAAAAGTGGATTGTCCACGGTTATGTACGTGTGAAATCAGGCCTTGGTTTACACCCAGATCCATTTATATG
GAAGCATCTACAGTGGATTGTAATGATTTAGGTCTTTTAACTTTCCCAGCCAGATTGCCAGCTAACACACAGATT
CTTCTCCTACAGACTAACAAATATTGCAAAAATTGAATACTCCACAGACTTTCCAGTAAACCTTACTGGCCTGGAT
TTATCTCAAAACAATTTATCTTCAGTCCCAATATTAATGTAAAGAAGATGCCTCAGCTCCTTTCTGTGTACCTA
GAGGAAAACAACTTACTGAACTGCCTGAAAAATGTCTGTCCGAACTGAGCAACTTACAAGAAGCTCTATATTAAT
CACAACCTTGCTTTCTACAATTTACCTGGAGCCTTTATTGGCCTACATAATCTTCTTCGACTTCATCTCAATTCA
AATAGATTGCAGATGATCAACAGTAAGTGGTTTGAIGCTCTTCCAAATCTAGAGATTCTGATGATTGGGGAAAAAT
CCAATTATCAGAATCAAAGACATGAACCTTTAAGCCTCTTATCAATCTTCGAGCCTGGTTATAGCTGGTATAAAC
CTCACAGAAAATACCAGATAACGCCTTGGTTGGACTGGAAAACTTAGAAAGCATCTCTTTTACGATAACAGGCCTT
ATTAAAGTACCCCATGTTGCTCTTCAAAAAGTTGTAAATCTCAAATTTTGGATCTAAATAAAAAATCCTATTAAT
AGAATACGAAGGGGTGATTTTAGCAATATGCTACACTTAAAAGAGTTGGGGATAAATAATATGCCTGAGCTGATT
TCCATCGATAGTCTTGCTGTGGATAACCTGCCAGATTTAAGAAAAATAGAAGCTACTAACAAACCTAGATTGTCT
TACATTACCCCAATGCATTTTTTCAGACTCCCCAAGCTGGAATCACTCATGCTGAACAGCAATGCTCTCAGTGCC
CTGTACCATGGTACCATTGAGTCTCTGCCAAACCTCAAGGAAATCAGCATACACAGTAACCCCATCAGGTGTGAC
TGTGTATCCGTTGGATGAACATGAACAAAACCAACATTCGATTTCATGGAGCCAGATTCACTGTTTTGCGTGGAC
CCACCTGAATTCCAAGGTCAGAATGTTCCGCAAGTGCATTTAGGGACATGATGGAAATTTGTCTCCCTCTTATA
GCTCCTGAGAGCTTTCTTTCTAATCTAAATGTAGAAGCTGGGAGCTATGTTTCTTTTACTGTAGAGCTACTGCA
GAACCACAGCCTGAAATCTACTGGATAACACCTTCTGGTCAAAAACCTTGCCTAATACCCTGACAGACAAGTTC
TATGTCCATTCTGAGGGAACACTAGATATAAATGGCGTAACTCCCAAAGAAGGGGGTTTATATACTTGTATAGCA
ACTAACCTAGTTGGCGCTGACTTGAAGTCTGTTATGATCAAAGTGGATGGATCTTTTCCACAAGATAACAATGGC
TCTTTGAATATTAATAAAGAGATATTAGGCCAATTCAGTTTTGGTGTCTGGAAAGCAAGTCTAAAATTCTC
AAATCTAGTGTAAATGGACAGCCTTTGTCAAGACTGAAAATCTCATGCTGCGCAAAGTGTGCAATACCATCT
GATGTCAAGGTATATAATCTTACTCATCTGAATCCATCAACTGAGTATAAAATTTGTATTGATATCCCACCATC
TATCAGAAAAACAGAAAAAATGTGTAAATGTACCACCAAAGGTTTGCACCCTGATCAAAAAGAGTATGAAAAG
AATAATACCACAACACTTATGGCCTGTCTTGGAGGCCTTCTGGGGATTATTGGTGTGATATGCTTATCAGCTGC
CTCTCTCCAGAAATGAACGTGTGATGGTGGACACAGCTATGTGAGGAATTACTTACAGAAACCAACCTTTGCATT
GGTGAGCTTTATCCTCCTCTGATAAATCTCTGGGAAGCAGGAAAAGAAAAAGTACATCACTGAAAGTAAAAGCA
ACTGTTATAGGTTTACCAACAAATATGTCTTAAAAACCACCAAGGAAACCTACTCCAAAATGAACAAAAA

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FIGURE 1942

MKDMPLRIHVLLGLAITTLVQAVDKKVDCPRLCTCEIRPWFTPRSIYMEASTVDCNDLGLLTFFPARLPANTQILL
LQTNNAKIEYSTDFPVNLTGLDLSQNNLSSVTNINVKKMPQLLSVYLEENKLTPEKCLSELSNLQELYINHN
LLSTISPGAFIGLHNLRLHLNSNRLQMINSKWFDALPNLEILMIGENPIIRIKDMNFKPLINLRSLVIAGINLT
EIPDNALVGLENLESISFYDNRLIKVPHVALQVVNLKFLDLNKNPINRIRRGDFSNNLHLKELGINNMPELIST
DSLAVDNLPDLRKIEATNNPRLSYIHPNAFFRLPKLESMLNSNALSALYHGTTIESLPNLKEISIHSPIRCDV
IRWMNMNKTNIRFMEPDSLFCVDPPEFQGNVRQVHFRDMEICPLIAPESFPSNLNVEAGSYVSFHCRTAEP
QPEIYWITPSGQKLLPNTLTDKFYVHSEGTLDINGVTPKEGGLYTCIATNLVGADLKSVMIKVDGSFPQDNNGSL
NIKIRDIQANSVLVSWKASSKILKSSVKWTAFAVKTENSHAAQSARIPSDVKVYNLTHLNPSTEYKICIDIPTIYQ
KNRKKCVNVITKGLHPDQKEYEKNNTTTLMACLGGLGIIGVICLISCLSPENNCDDGGHSYVRNYLQKPTFALGE
LYPPLINLWEAGKEKSTSLKVKATVIGLPTNMS

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FIGURE 1943

GTGCGGTCCGTCCGTGGCCTAGAGATGCTGCTGCCGCGGTTGCAGTTGTCGCGCACGCCTCTGCCCGCCAGCCCG
CTCCACCGCCGTAGCGCCCCGAGTGTGCGGGGGCGCACCCGAGTCGGGGCCATGAGGCCGGAACCGCGCTACAGGC
CGTGCTGCTGGCCGTGCTGCTGGTGGGGCTGCGGGCCGCGACGGGTGCGCTGCTGAGTGGGCAGCCAGTCTGCCG
GGGAGGGACACAGAGGCCTTGTATAAAGTCATTTACTTCCATGATACTTCTCGAAGACTGAACTTTGAGGAAGC
CAAAGAAGCCTGCAGGAGGGATGGAGGCCAGCTAGTCAGCATCGAGTCTGAAGATGAACAGAACTGATAGAAAA
GTTTATTGAAAACCTCTTGCCATCTGATGGTGACTTCTGGATTGGGCTCAGGAGGCGTGAGGAGAAACAAAGCAA
TAGCACAGCCTGCCAGGACCTTTATGCTTGGACTGATGGCAGCATATCACAATTTAGGAACTGGTATGTGGATGA
GCCGTCTGCGGCAGCGAGGTCTGCGTGGTCTATGTACCATCAGCCATCGGCACCCGCTGGCATCGGAGGCCCTTA
CATGTTCCAGTGGAATGATGACCGGTGCAACATGAAGAACAATTTTCAATTTGCAAATATTCTGATGAGAAACCAGC
AGTTCCTTCTAGAGAAGCTGAAGGTGAGGAAACAGAGCTGACAACACCTGTACTTCCAGAAGAAACACAGGAAGA
AGATACCAAAAAACATTTAAAGAAAGTAGAGAAGCTGCCTTGAATCTGGCCTACATCCTAATCCCCAGCATTC
CCTTCTCCTCCTCCTTGTGGTCAACACAGTTGTATGTTGGGTTTGGATCTGTAGAAAAAGAAAACGGGAGCAGCC
AGACCCTAGCACAAAGAAGCAACACACCATCTGGCCCTCTCCTCACCAGGGAAACAGCCCGGACCTAGAGGTCTA
CAATGTCATAAGAAAAACAAAGCGAAGCTGACTTAGCTGAGACCCGGCCAGACCTGAAGAATATTTTCAATCCGAGT
GTGTTCCGGGAGAAGCCACTCCCGATGACATGTCTTGTGACTATGACAACATGGCTGTGAACCCATCAGAAAGTGG
GTTTGTGACTCTGGTGAGCGTGGAGAGTGGATTGTGACCAATGACATTTATGAGTTCTCCCCAGACCAATGGG
GAGGAGTAAGGAGTCTGGATGGGTGGAAAATGAAATATATGGTTATTAGGACATATAAAAACTGAAACTGACAA
CAATGGAAAAGAAATGATAAGCAAAATCCTCTTATTTTCTATAAGGAAAATACACAGAAGGTCTATGAACAAGCT
TAGATCAGGTCTGTGGATGAGCATGTGGTCCCCACGACCTCCTGTTGGACCCACGTTTTGGCTGTATCCTTT
ATCCCAGCCAGTCATCCAGCTCGACCTTATGAGAAGGTACCTTGCCAGGTCTGGCACATAGTAGAGTCTCAATA
AATGTCACCTTGGTTGGTTGTATCCAACTTTAAAGGGACAGAGCTTTACCTGGCAGTGATAAAGATGGGCTGTGGA
GCTTGGAAAACACCTCTGTTTTCTTGTCTATACAGCAGCACATATTATCATAACAGACAGAAAATCCAGAATC
TTTTCAAAGCCACATATGGTAGCACAGGTGGCCTGTGCATCGGCAATTCTCATATCTGTTTTTTCAAAGAAT
AAAATCAAATAAAGAGCAGG

MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRRGGTQRPCKYVIYFHDTSRRLNFEEAKEACRRDGGQLVLSIES
EDEQKLIKIEFIENLLPSDGDWIGLRRREEKQSNSTACQDLAWTDGSIQFRNWYVDEPSCGSEVCVVMYHQPS
APAGIGGPYMFQWNDDRCNMKNNFICKYSDEKPAVPSREAEGETELTTPVLPEETQEEDTKKTFKESREALNL
AYILIPSIPLLLLLLVTTVCWVWICRKRKREQDPSTKKQHTIWPSPHQGNSPDLVYNVIRKQSEADLAETRP
DLKNI SFRVCSGEATPDDMSCDYDNMAVNPESG FVTLSVESG FVTNDIYEFSPDQMGRSKESGWVENEIYGY

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FIGURE 1945

GGCACGAGGGATGCAAGGAGATGAGACAGTTAGATTTACTTCCTCTTTTCTAATCTGAGAGGTTTCATGTTGAAG
AAAAATCAGTGTTGGGGTTGCAGGAGACCTAAACACAGTCACCATGAAGCTGGGCTGTGTCCTCATGGCCTGGGCC
CTCTACCTTTCCCTTGGTGTGCTCTGGGTGGCCAGATGCTACTGGCTGCCAGTTTTGAGACGCTGCAGTGTGAG
GGACCTGTCTGCACTGAGGAGAGCAGCTGCCACACGGAGGATGACTTGACTGATGCAAGGGAAGCTGGCTTCCAG
GTCAAGGCCTACACTTTTCAGTGAACCTTCCACCTGATTGTGTCTATGACTGGCTGATCTCCAAGGTCCAGCC
AAGCCAGTTTTTTGAAGGGGACCTGCTGGTTCTGCGCTGCCAGGCCTGGCAAGACTGGCCACTGACTCAGGTGACC
TTCTACCGAGATGGCTCAGCTCTGGGTCCCCCGGGCTAACAGGGAATTCTCCATCACCGTGGTACAAAAGGCA
GACAGCGGGCACTACCACTGCAGTGGCATCTTCCAGAGCCCTGGTCTGGGATCCCAGAAACAGCATCTGTTGTG
GCTATCACAGTCCAAGAACTGTTTCCAGCGCCAATTCTCAGAGCTGTACCCTCAGCTGAACCCCAAGCAGGAAGC
CCCATGACCCTGAGTTGTGACACAAAGTTGCCCCCTGCAGAGGTGAGCTGCCCGCCTCCTCTTCTCCTTCTACAAG
GATGGAAGGATAGTGCAAGCAGGGGGCTCTCCTCAGAAATCCAGATCCCCACAGCTTCAGAAGATCACTCCGGG
TCATACTGGTGTGAGGCAGCCACTGAGGACAACCAAGTTTGAAACAGAGCCCCAGCTAGAGATCAGAGTGCAG
GGTCTTCCAGCTCTGCTGCACCTCCCACATTGAATCCAGCTCCTCAGAAATCAGCTGCTCCAGGAAGTCTCCT
GAGGAGGCCCTGGGCTCTGCTCCGCGCCCAACCCCATCTTCTGAGGATCCAGGCTTTTCTCTCCTCTGGGG
ATGCCAGATCCTCATCTGTATCACCAGATGGGCCTTCTTCTCAAACACATGCAGGATGTGAGAGTCTCCTCGGT
CACCTGCTCATGGAGTTGAGGGAATTATCTGGCCACCAGAAGCCTGGGACCACAAAGGCTACTGCTGAATAGAG
TAAACAGTTTCATCCATGATCTCACTTAACCAACCCCAATAAATCTGATTCTTTATTTTCTTCTCTCTGCTGCACA
TATGCATAAGTACTTTTACAAGTTGTCCCAGTGTTTTGTTAGAATAATGTAGTTAGGTGAGTGTAAATAAATTTA
TATAAAGTGAGAATTAGAGTTTAGCTATAATTGTGTATTCTCTCTTAACACAACAGAATTCTGCTGTCTAGATCA
GGAATTTCTATCTGTTATATCGACCAGAATGTTGTGATTTAAAGAGAACTAATGGAAGTGGATTGAATACAGCAG
TCTCAACTGGGGCAATTTTGCCCCCAGAGGACATTGGGCAATGTTTGAGACATTTTGGTCATTATACTTGGG
GGGTTGGGGGATGGTGGGATGTGTGTGCTACTGGCATCCAGTAAATAGAAGCCAGGGGTGCCGCTAAACATCCTA
TAATGCACAGGGCAGTACCCCAACGAAAAATAATCTGGCCCAAAATGTCAGTTGTACTGAGTTTGAGAAACCC
CAGCCTAATGAAACCTAGGTGTTGGGCTCTGGAATGGGACTTGTCCCTTCTAATTATTATCTCTTCCAGCCT
CATTACGTATTCTTACTGACATACCAGTCTTTAGCTGGTGTATGGTCTGTTCTTTAGTTCTAGTTTGTATCCC
CTCAAAAGCCATTATGTTGAAATCCTAATCCCAAGGTGATGGCATTAGAAGTGGGCCTTTGGGAAGTGATTAG
ATCAGGAGTGCAGAGCCCTCATGATTAGGATTAGTGCCCTTATTTAAAAAGGCCCAGAGAGCTAACTCACCCCTT
CCACCATATGAGGACGTGGCAAGAAGATGACATGTATGAGAACCAAAAAACAGCTGTGCCAAACACCGAÇTCTG
TCGTTGCCTTGATCTTGAACCTCCAGCCTCCAGAACTATGAGAAATAAAATTCTGTGTTGTAAAAA
AAAAA

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FIGURE 1946

MKLGCVLMAWALYLSLGVLVWAQMLLAASFETLQCEGPVCTEESSCHTEDDLTDAREAGFQVKAYTFSEPFHLIV
SYDWLILQGPAKPVFEGDLLVLRQAWQDWPLTQVTFYRDGSALGPPGPNREFSITVVQKADSGHYHCSGIFQSP
GPGIPETASVVAITVQELFPAPILRAVPSAEPQAGSPMTLSCQTKLPLQRSAARLLFSFYKDGRIVQSRGLSSEF
QIPTASEDHSGSYWCEAATEDNQVWKQSPQLEIRVQGASSAAPTILNPAPQKSAAPGTAPEEAPGPLPPPTPS
SEDPGFSSPLGMPDPHLYHQMGLLLKHMQDVRVLLGHLLMELRELSGHQKPGTTKATAE

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FIGURE 1947

AGGAATAAAACACAGAAGAAAATGGAGAGAAGGGGACTGAAATATTCAGAGCTTCTGCAGTGATTCCCAGCAAG
GACAAAGCCGCCTTTTTCCTGAGTTATGAGGAGCTTCTGCAGAGGCGCCTGGGCAAGTACGAGCACAGCATCAGC
GTGCGGCCCCAGCAGCTGTCCGGGAGGCTGAGCGTGGACGTGAATATCCTGGAGAGCGGGGCATCGCATCCCTG
GAGGTGCTGCCGCTTACAAACAGCAGGCAGAGGGGCAGTGGGCGCGGGGAAGATGATTCTGGGCCCTCCCCATCT
ACTGTCATTAAACAAAATGAAACATTTGCCAACATAATTTTTAAACCTACTGTAGTACAACAAGCCAGGATTGCC
CAGAATGGAATTTTGGGAGACTTTATCATTAGATATGACGTCAATAGAGAACAGAGCATTGGGGACATCCAGGTT
CTAAATGGCTATTTTGTGCACTACTTTGCTCCTAAAGACCTTCTCCTTTACCCAAGAATGTGGTATTCTGTGCTT
GACAGCAGTGCTTCTATGGTGGGAACCAAACCTCCGGCAGACCAAGGATGCCCTCTTCACAATTCTCCATGACCTC
CGACCCAGGACCGTTTTCAGTATCATTGGATTTTCCAACCGGATCAAAGTATGGAAGGACCACTTGATATCAGTC
ACTCCAGACAGCATCAGGGATGGGAAAGTGTACATTACCATATGTCACCCACTGGAGGCACAGACATCAACGGG
GCCCTGCAGAGGGCCATCAGGCTCCTCAACAAGTACGTGGCCACAGTGGCATTGGAGACCGGAGCGTGTCCCTC
ATCGTCTTCTGACGGATGGGAAGCCACGGTCGGGGAGACGCACACCCTCAAGATCCTCAACAACACCCGAGAG
GCCGCCCCAGGCCAAAGTCTGCATCTTACCATTGGCATCGGCAACGACGTGGACTTCAGGCTGCTGGAGAACTG
TCGCTGGAGAACTGTGGCCTCACACGGCGCGTGCACGAGGAGGAGGACGCAGGCTCGCAGCTCATCGGGTTCTAC
GATGAAATCAGGACCCCGCTCCTCTCTGACATCCGCATCGATTATCCCCCAGCTCAGTGGTGCAGGCCACCAAG
ACCTGTTCCTCAACTACTTCAACGGCTCGGAGATCATCATTGCGGGGAAGCTGGTGGACAGGAAGCTGGATCAC
CTGCACGTGGAGGTACCGCCAGCAACAGTAAGAAATTCATCATCCTGAAGACAGATGTGCTGTGCGGCCTCAG
AAGGCAGGGAAAGATGTACAGGAAGCCCCAGGCCTGGAGGCGATGGAGAGGGGGACCCCAACCACACCGAGCGT
CTCTGGAGCTACCTCACCACAAAGGAGCTGCTGAGCTCCTGGCTGCAAAGTGACGATGAACCGGAGAAGGAGCGG
CTGCGGCAGCGGGCCAGGCCCTGGCTGTGAGCTACCGCTTCTCACTCCCTTACCTCCATGAAGCTGAGGGGG
CCGGTCCCACGCATGGACGGCCTGGAGGAGGCCACGGCATGTGCGCTGCCATGGGACCCGAACCGGTGGTGCAG
AGCGTGCGAGGAGCTGGCACGCAGCCAGGACCTTTGCTCAAGAAGCCATACCAGCCAAGAAATTAATCTCTAA
ACATCAGTTTCGTGGCTTCAGAAGGGAAGAACAGATTTTTTCAAATGTGATGAAATTTCTTTTGGCAGCATCCTG
GAACTATAATAAAATTCAGAGGAAGAAACAACCTATGACTGGGTTTTGTCTGTGTGTCCAGATCATCCTCTG
GAAGTCTTGATTGTTGCCTTTCTGCTGCTGTGCTGTACGTGCAAGTTCCTAAAGCCAGGGACATCCCGGAGATGA
GCTGTGGATATAGAGTCCGCACAGCCTGCGGGAGACAGAATGTAATTCCTTCCAACACACACACAGGCTTTAT
GGAATGCCAGAAAAGCTTCTCTTGGATGCTGCCTGGAGTAATGACTTTTTTGACCCTCCCCTCTTTTTTGGAGCA
AGCACTATCTTTCTTGTAAAGGAATTTGGACAATTTGAGTAGAAATGGTGTGGTATGTGCACATAGAACTCTC
AGAAACTGTGAGTAGCTAGACAGTTGTCTCTATCTCCATGGGTCCCGCATCCCAAGGATCGAACCAACAAC
AGATCAAAAATACGTGAAAAGGAATTGCATCTGTATTGAATGTGTACGGACTTTTTTCTTGCTTTGTTCTTT
AAACAATGTAGTGTAACAACTATTTACATCGCATCTCCTTGCATTCAATTATATAAGTAACTAGAGATGATT
AAAGTGTATAGAAAGGCTGCGTGCAGTGGCTAATGTCTGTAATCCCAGCACTTTGAGAGGCCGAGGCAGGTGGAT
CACCTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACGTGGTGAAACCCCATCTCTACTAAAAATACAATAATTA
GCTGGGCATGGTGGTGCACGCTGTAATCCCAGCTATTGCGGAGGCTGAGGCAGGAGAATCGCTTGAACCCAGGA
GGCAGAGATTGCAGTGAACCGAGATTGCACCATTCAGCTCCAGCCTGGGTGACAGAGTGAACCTCCGTCTCAAAA
ACAAAATAAATAAATAAGAATAAAT

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FIGURE 1948

MVGTKLRQTKDALFTILHDLRPQDRFSIIGFSNRIKVWKDHLISVTPDSIRDGKVYIHHMSPTGGTDINGALQRA
IRLLNKYVAHSGIGDRSVSLIVFLTDGKPTVGETHTLKILNNTREAARGQVCIFTIGIGNDVDFRLLLEKLSLENC
GLTRRVHEEEDAGSQLIGFYDEIRIPLLSDIRIDYPPSSVVQATKTLFPNYFNGSEIIIAGKLVDRKLDHLHVEV
TASNSKKFIILKTDVPVRPQKAGKDVTGSPRPGGDGEGDPNHTERLWSYLTTKELLSSWLQSDDEPEKERLRQRA
QALAVSYRFLTPFTSMKLRGPVPRMDGLEEAHGMSAAMGPEPVVQSVRGAGTQPGPLLKKPYQPRIKISKTSVRG
FRREEQIFSVMKFPFASILEL

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FIGURE 1949

GTGGCTTGGTATTCACTGGCAGGTTTCAGACATTTAGATCTTTCTTTAATGACTAACACCATGCCTATCTGTGG
AGAAGCTGGCAACATGTACACCTGGAAATTGTTTTCAACATTAATACTATTATTTGGCAGTAATCCAGATTGC
TTTTGCCACCAACCTGAAGACATATAGAGGCAGAAGGACAGGAATAATTCTATTTGTTCTGTGTTTGAACTTC
CATCTGTAAGGCTATCAAAGGAGATGTGAGAGAGGGTATTGAGTCTGGCCTGACAATGCAGTTCTTAAACCAA
GGTCCATTATGCTTCTCCTCTCTGAGAATCCTGACTTACCTCAACAACGGAGACATGGCACAGTAGCCAGCTTGG
AGACTTCTCAGCCAATGCTCTGAGATCAAGTCGAAGACCCAATATACAGGGTTTTGAGCTCATCTTCATCATTCA
TATGAGGAAATAAGTGGTAAATCCTTGGAAATACAATGAGACTCATCAGAAACATTTACATATTTTGTAGTATT
GTTATGACAGCAGAGGGTGATGCTCCAGAGCTGCCAGAAGAAAGGGAAGTATGACCAACTGCTCCAACATGTCT
CTAAGAAAGGTTCCCGCAGACTTGACCCAGCCACAACGACACTGGATTATCCTATAACCTCCTTTTTCAACTC
CAGAGTTTCAAGATTTTCAATTCTGTCTCCAACTGAGAGTTTTGATTCTATGCCATAACAGAATTCACAGCTGGAT
CTCAAAACCTTTGAATTCACAAGGAGTTAAGATATTTAGATTTGTCTAATAACAGACTGAAGAGTGTAACTTGG
TATTTACTGGCAGGTCTCAGGTATTTAGATCTTTCTTTAATGACTTTGACACCATGCCTATCTGTGAGGAAGCT
GGCAACATGTACACCTGGAAATCCTAGGTTTGTAGTGGGGCAAAAATACAAAATCAGATTTCCAGAAAATTGCT
CATCTGCATCTAAATACTGTCTTCTTAGGATTCCAGAACTCTTCTCATTATGAAGAAGGTAGCCTGCCCATCTTA
AACACAACAAAACCTGCACATTGTTTTACCAATGGACACAAATTTCTGGGTTCTTTTGCCTGATGGAATCAAGACT
TCAAAAATATTAGAAATGACAAATATAGATGGCAAAAGCCAATTTGTAAGTTATGAAATGCAACGAAATCTTAGT
TTAGAAAATGCTAAGACATCGGTTCTATTGCTTAATAAGTTGATTACTCTGGGACGACCTTTTCTTATCTTA
CAATTTGTTTGGCATAATCAGTGGAACTTTTCCAGATCCGAAATGTGACTTTTGGTGGTAAGGCTTATCTTGAC
CACAATTCATTTGACTACTCAATACTGTAATGAGAACTATAAAATTTGGAGCATGTACATTTTCAAGAGTGTGTTTAC
ATTCAACAGGATAAAAATCTATTTGCTTTTGACCAAAATGGACATAGAAAACCTGACAATATCAAATGCACAAATG
CCACACATGCTTTTCCGAATTATCCTACGAAATTCGAATATTTAAATTTTGCCAATAATATCTTAACAGACGAG
TTGTTTAAAGAACTATCCAACCTGCCTCACTTGAAAACCTCTCATTTTGAATGGCAATAAACTGGAGACACTTTCT
TTAGTAAGTTGCTTTGCTAACAACACACCCCTTGGAACACTTGGATCTGAGTCAAAATCTATTACAACATAAAAAAT
GATGAAAATTTGCTCATGGCCAGAACTGTGGTCAATATGAATCTGTCATACAATAAATTTGCTGATTCTGTCTTC
AGGTGCTTGCCCAAAAGTATTCAATACTTGACCTAAATAAACCCTTAACTGACCTAAAGAGACTATT
CATCTGATGGCCTTACGAGAACTAAATATTGCATTTAATTTTCTAACTGATCTCCCTGGATGCAGTCATTTTCACT
AGACTTTCAGTTCTGAACATTGAAATGAATTCATTCTCAGCCCATCTCTGGATTTTGTTCAGAGCTGCCAGGAA
GTTAAACTCTAAATGCGGGAAGAAATCCATTCCGGTGTACCTGTGAATTAATAAATTTTCACTCAGCTTGAAACA
TATTCAGAGGTATGATGGTTGGATGGTCAGATTCATACACCTGTGAATACCCTTTAAACCTAAGGGGAATTAGG
TTAAAGACGTTTATCTCCACGAATTATCTTGCAACACAGCTCTGTTGATTGTACCATTTGTGGTTATTATGCTA
GTTCTGGGGTTGGCTGTGGCCTTCTGCTGTCTCCACTTTGATCTGCCCTGGTATCTCAGGATGCTAGGTCAATGC
ACACAAACATGGCACAGGGTTAGGAAAACAACCAAGAACTCAAGAGAAATGTCCGATTCCACGCATTTTATT
TCATACAGTGAACATGATTCTCTGTGGGTGAAGAATGAATGATCCCAATCTAGAGAAGGAAGATGGTTCTATC
TTGATTTGCCTTTATGAAAGCTACTTTGACCCTGGCAAAAGCATTAGTGAAAATATTGTAAGCTTCATTGAGAAA
AGCTATAAGTCCATCTTTGTTTTGTCTCCCACTTTGTCCAGAATGAGTGGTGCCATTATGAATTTTACTTTGCC
CACCACAATCTCTTCCATGAAAATTTCTGATCATATAATTCTTATCTTACTGGAACCCATTCCATTCTATTGCATT
CCCACCAGGTATCATAAACTGAAAGCTCTCCTGGAAAAAAGCATACTTGGAATGGCCCAAGGATAGGCGTAAA
TGTGGGCTTTTCTGGGCAACCTTCGAGCTGCTATTAATGTTAATGTATTAGCCACCAGAGAAATGTATGAACTG
CAGACATTCACAGAGTTAAATGAAGAGTCTCGAGGTTCTACAATCTCTCTGATGAGAACAGATTGTCTATTAAT
CCCACAGTCTTTGGGAAGTTGGGGACCACATACACTGTTGGGATGTACATTGATACAACCTTTATGATGGCAATT
TG

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FIGURE 1950

MRLIRNIYIFCSIVMTAEGDAPELPEEREELMTNCSNMSLRKVPADLTPATTTLDLSYNLLFQLQSSDFHSVSKLR
VLILCHNRIQQDLKTFEFNKELRYLDLSNNRLKSVTWYLLAGLRYLDLSFNDFDTMPICEEAGNMSHLEILGLS
GAKIQKSDFQKIAHLHLNTVFLGFRTLPHYEEGSLPILNTTKLHIVLPMDTNFWVLLRDGIKTSKILEMTNIDGK
SQFVSYEMQRNLSLENAKTSVLLLNKVDLLWDDLFLILQFVWHTSVEHFQIRNVTFGGKAYLDHNSFDYSNTVMR
TIKLEHVHFRVFIQQDKIYLLLTkMDIENLTISNAQMPHMLFPNYPTKFQYLNFNANNILTDELFKRTIQPLHLK
TLILNGNKLETLSLVSCFANNTPLEHLDLSQNLLQHKNDENCSPETVVNMNLSYNKLSDSVFRCLPKSIQILD
NNNQIQTVPKETIHLMALRELNIAFNFLTDLPGC SHFSRLSVLNIEMNFILSPSLDFVQSCQEVKTLNAGRNPF
CTCELKNFIQLETYSEVMVGVWSDSYTCEYPLNLRGIRLKDVHLHELSCNTALLIVTIVVIMLVGLAVAFCC
FDLPWYLRMLGQCTQTWHRVRKTTQEQLKRNVRFHAFISYSEHDSLWVKNELIPNLEKEDGSILICLYESYFDPG
KSISENIVSFIEKSYKSIFVLSPNFVQNEWCHYEFYFAHHNLFHENS DHIIILILEPIPFYCIPTRYHKLKALLE
KKAYLEWPKDRRKCGLFWANLRAAINVNVLATREMYELQTFTELNEESRGSTISLMRTDCL

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FIGURE 1951

AACTTCTAGAAGTTGAAGTTACAAAGGTATATAGAAGGTACACAGAATCAGAAAAGATTATAAAAGAAAGCAAGA
TTTTTGTAGTAGCGTCCTGTTTCCTCTGAAGAGTAATAGTTGGAATCAAAAGAGTCAACGCAATGAAGTGTAT
TTACTGCTGCGTTTTATGTTGGGAATTCCTCTCCTATGGCCTTGCTTGGAGCAACAGAAAACCTCTCAAACAAAG
AAAGTCAAGCAGCCAGTGCATCTCATTGAGAGTGAAGCGTGGCTGGGTGTGGAACCAATTTTTTGTACCAGAG
GAAATGAATACGACTAGTCATCACATCGGCCAGCTAAGATCTGATTAGACAATGGAAACAATTCCTTCCAGTAC
AAGCTTTTTGGGAGCTGGAGCTGGAAGTACTTTTTATCATTGATGAAAGAACAGGTGACATATATGCCATACAGAAG
CTTGATAGAGAGAGCGATCCCTCTACATCTTAAGAGCCCAGGTAATAGACATCGCTACTGGAAGGGCTGTGGAA
CCTGAGTCTGAGTTTGTATCAAAGTTTCGGATATCAATGACAATGAACCAAAATTCCTAGATGAACCTTATGAG
GCCATTGTACCAGAGATGTCTCCAGAAGGAACATTAGTTATCCAGGTGACAGCAAGTGATGCTGACGATCCCTCA
AGTGGTAATAATGCTCGTCTCCTCTACAGCTTACTTCAAGGCCAGCCATATTTTTCTGTTGAACCAACAACAGGA
GTCATAAGAATATCTTCTAAATGGATAGAGAAGTGAAGATGAGTATTGGGTAATCATTCAAGCCAAGGACATG
ATTGGTCAGCCAGGAGCGTTGTCTGGAACAACAAGTGTATTAATTAACCTTTCAGATGTTAATGACAATAAGCCT
ATATTTAAAGAAAGTTTATACCGCTTGACTGTCTCTGAATCTGCACCCACTGGGACTTCTATAGGAACAATCATG
GCATATGATAATGACATAGGAGAGAATGCAGAAATGGATTACAGCATTGAAGAGGATGATTGCGAAACATTTGAC
ATTATTACTAATCATGAAACTCAAGAAGGAATAGTTATATTAAGAAAGAAAGTGGATTTTGAGCACCAGAACCAC
TACGGTATTAGAGCAAAAGTTAAACCACATCATGTTCTGAGCAGCTCATGAAGTACCACACTGAGGCTTCCACC
ACTTTCATTAAAGATCCAGGTGGAAGATGTTGATGAGCCTCCTCTTTTCTCCTTCCATATTATGTATTGGAAGTT
TTTGAAGAAACCCACAGGGATCATTGTAGGCGTGGTGTCTGCCACAGACCCAGACAATAGGAAATCTCCTATC
AGGTATTCTATTACTAGGAGCAAAGTGTCAATATCAATGATAATGGTACAATCACTACAAGTAACTCACTGGAT
CGTGAATCAGTGCTTGGTACAACCTAAGTATTACAGCCACAGAAAAATACAATATAGAACAGATCTCTTCGATC
CCACTGTATGTGCAAGTTCTTAACATCAATGATCATGCTCCTGAGTTCTCTCAATACTATGAGACTTATGTTTGT
GAAATGCAGGCTCTGGTCAGGTAATTCAGACTATCAGTGCAGTGGATAGAGATGAATCCATAGAAGAGCACCAT
TTTTACTTTAATCTATCTGTAGAAGACACTAACAATTCAAGTTTTACAATCATAGATAATCAAGATAACACAGCT
GTCATTTTACTAATAGAACTGGTTTTAACCTTCAAGAAGAACCTGTCTTCTACATCTCCATCTTAATTGCCGAC
AATGGAATCCCGTCACTTACAAGTACAACACCCCTTACCATCCATGTCTGTGACTGTGGTGACAGTGGGAGCACA
CAGACCTGCCAGTACCAGGAGCTTGTGCTTCCATGGGATTCAAGACAGAAGTCATCATTGCTATTCTCATTTCG
ATTATGATCATATTTGGGTTTATTTTTTGTACTTTGGGTTTAAACAACGGAGAAAACAGATTCTATTTCTGAG
AAAAGTGAAGATTTAGAGAGAATATATTCCAATATGATGATGAAGGGGGTGGAGAAGAAGATACAGAGGCCTTT
GATATAGCAGAGCTGAGGAGTAGTACCATAATGCGGGAACGCAAGACTCGGAAAACCACAAGCGCTGAGATCAGG
AGCCTATACAGGCAGTCTTTGCAAGTTGGCCCCGACAGTGCATATTCAGGAAATTCATTCTGAAAAGCTCGAA
GAAGCTAATACTGATCCGTGTGCCCCCTCCTTTGATTCCCTCCAGACCTACGCTTTTGAGGGAACAGGGTCATTA
GCTGGATCCCTGAGCTCCTTAGAATCAGCAGTCTCTGATCAGGATGAAAGCTATGATTACCTTAATGAGTTGGGA
CCTCGCTTTAAAGATTAGCATGCATGTTTGGTCTGCAAGTGCAGTCAAATAATAGGGCTTTTTACCATCAAAA
TTTTTAAAGTGCTAATGIGTATTGCAACCAATGGTAGTCTTAAAGAGTTTTGTGCCCTGGCTCTATGGCGGGG
AAAGCCCTAGTCTATGGAGTTTTCTGATTTCCCTGGAGTAAATCTCCATGGTTATTTTAAAGCTACCTACATGCT
GTCATTGAACAGAGATGTGGGGAGAAATGTAAACAATCAGCTCACAGGCATCAATACAACCAGATTTGAAGTAAA
ATAATTTAGGAAGATATTAAGTAGATGAGAGGACACAAGATGTAGTCGATCCTTATGCGATTATATCATTATT
TACTTAGGAAAGAGTAAAAATACCAACGAGAAAATTTAAAGGAGCAAAAATTTGCAAGTCAAATAGAAATGTAC
AAATCGAGATAACATTTACATTTCTATCATATTGACATGAAAATGAAAATGTATAGTCAGAGAAATTTTCATGA
ATTATTCCATGAAGTATTGTTTCTTTTATTTAAAAAAGGCTTATGCTAGGTAATCTTCGTAGA
AACTAGAAAGTATGATAAACAACAGTTGGAGGAATCCATGGAAAATAGACGAGAAAATGTAAATAAGGCTTTCT
GGGATCACAGAACTTTTGTATGAATAAAAGCCTTATAAAACCAGCTCTGGCATATGACTAAAATATTCTCTAC
TATTTTTCAATGTCATCTAATGCAACGCTCAACC

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FIGURE 1952

MNCYLLLRFMLGIPLLPCLGATENSQTKKVKQPVRSRLRVKRGWVWNQFFVPEEMNTTSHHIGQLRSDLDNGNN
SFQYKLLGAGAGSTFIIDERTGDIYAIQKLDREERSLYILRAQVIDIATGRAVEPESEFVIKVS DINDNEPKFLD
EPYEAIVPEMSPEGTLVIQVTASDADDPSSGNNARLLYSLQGQPYFSVEPTTG VIRISSKMDRELQDEYWVIIQ
AKDMIGQPGALSGTTSVLIKLSDVNDNKPIFKESLYRLTVSESAPTGT SIGTIMAYDNDIGENAEMDYSIEEDDS
QTFDIIITNHETQEGIVILKKKVD FEHQNHYGIRAKVKNHHVPEQLMKYHTEASTTFIKIQVEDVDEPPLFLLPYY
VFEVFEETPQGSFVGVSATDPDNRKSPIRYSITRSKVFNINDNGTITTSNSLDREISAWYNLSITATEKYNIEQ
ISSIPLYVQVLNINDHAPEFSQYYETYVCENAGSGQVIQTISAVDRDESIEEHFYNLSVEDTNSSFTIIDNQ
DNTAVILTNRIGFNLQEEPVFYISILIADNGIPSLTSTNTLTIHVCDGDSGSTQTCQYQELVLSMGFKTEVIIA
ILICIMIIFGFIFLTILGLKQRRKQILFPEKSEDFRENIFYDDEGGGEEDTEAFDIAELRSSTIMRERKTRKTTS
AEIRSLYRQSLQVGPDSAIFRKFILEKLEEANTDPCAPPFDSLQTYAFEGTGS LAGSLSSLES AVSDQDESYDYL
NELGPRFKRLACMFGSAVQSNN

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FIGURE 1953

GAAAGACGTGGTCCTGACAGACAGACAATCCTATTCCCTACCAAATGAAGATGCTGCTGCTGCTGTGTTGGGA
CTGACCCTAGTCTGTGTCCATGCAGAAGAAGCTAGTTCTACGGGAAGGAACTTTAAATGTAGAAAAGATTAAATGGG
GAATGGCATACTATTATCCTGGCCTCTGACAAAAGAGAAAAGATAGAAGAACATGGCAACTTTAGACTTTTCTG
GAGCAAATCCATGTCTTGGAGAATTCCTTAGTTCTTAAAGTCCATACTGTAAGAGATGAAGAGTGCTCCGAATTA
TCTATGGTTGCTGACAAAACAGAAAAGGCTGGTGAATATTCTGTGACGTATGATGGATTCAATACATTTACTATA
CCTAAGACAGACTATGATAACTTTCTTATGGCTCACCTCATTAAACGAAAAGGATGGGGAAACCTTCCAGCTGATG
GGGCTCTATGGCCGAGAACCAGATTTGAGTTCAGACATCAAGGAAAGGTTTGCACTATGTGAGGAGCATGGA
ATCCTTAGAGAAAATATCATTGACCTATCCAATGCCAATCGCTGCCTCCAGGCCCGAGAATGAAGAATGGCCTGA
GCCTCCAGTGTGAGTGGACACTTCTCACCAGGACTCCACCATCATCCCTTCTATCCATACAGCATCCCCAGTA
TAAATTCGTGATCTGCATTCCATCCTGTCTCACTGAGAAGTCCAATTCCAGTCTATCAACATGTTACCTAGGAT
ACCTCATCAAGAATCAAAGACTTCTTTAAATTTCTTTTGATACACCCTTGACAATTTTTCATGAAATTATTCCT
CTTCCTGTTCAATAAATGATTACCCCTTGCACTTAA

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FIGURE 1954

MKMLLLLCIGLTLVCVHAAEASSTGRNFNVEKINGEWHTIILASDKREKIEEHGNFRLFLEQIHVLENSLVLKVH
TVRDEECSELSMVADKTEKAGEYSVTYDGFNTFTIPKTDYDNFLMAHLINEKDGETFQLMGLYGREPDLSSDIKE
RFAQLCEEHGILRENIIDLSNANRCLQARE

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FIGURE 1955

CTCAGACTACAGGTGTGAGCCACCATGCCCGGCCCTTCTCCTTTAAGTATTGTTGGCCTCACTTTCCCAACTAAAA
TGGGAGCTCACTAAGAACAAAGGCTGTTCTTTCATCTTATACTTAGTACCTTGAAAGGGCCTACCACACAGTAGG
TGGTCACGTGTTAGTCTGTTAGGTCTTTTGGATTTTCTAGGTAGACAATCACATCGATTGCAAATAATAGTCTTT
CTCTTTTCAGTCTTTGTATTTCTTTTTCTTGTTTTATTGCATTGACTGAGCTCATCAGTGAAATGTTGAATAGT
AGCAATGATGGAGGGCACCCCAATCTTATTATGCTCAATACTCATTAAATTTATGCAATAGGAATGTAAAGTACCT
ACTGCAGGTCAAATCCTGTGCCTGGGGATAACAGTGTAAACACATTTGAGATCTTTTCTGTCCACTGAAATGCCT
GAGCAGTAGCAGTATTTTCACTAAACACGACAATGCTGAGAATATCACCAAATTTCTCCAGACTTGCTGAAGTGTC.
CTTTGGGATCCTGGTTCCCAAAAAGTATGGACATAGGTCCCTGCTGGTGGCCCCAGGTTCCAGGCCATCAGTAAG
GTTGGGGGCTGCAGACTGGACCACTGCACCGTGGAGCAGAGGTGAAGAAACCAAGACGCAGAGAGGCCAAGCCCC
TTGCCTTGGGTACACAGCCAAAGGAGGCAGAGCCAGAACTACAACCAGATCCAGAGGCAACAGGGACATGGGCC
ACCTGGGACGAAAAGGCAGTCACCCGAGGGCCAAGTGGCTCCCGCTGAGAGGATGAGCAAGTTCTTAAGGCAC
TTCACGGTCGTGGGAGACGACTACCATGCCTGGAACATCAACTACAAGAAATGGGAGAATGAAGAGGAGGAGGAG
GAGGAGGAGCAGCCACCACCCACACCACTCTCAGGCGAGGTCTATCATCTGCTTGGTGGTCTGGATGCCCTC
CTGGTGCTTGCTGAGCTCATCCTGGACCTGAAGATCATCCAGCCCCACAAGAATAACTATGCTGCCATGGTATTC
CACTACATGAGCATCACCATCTTGGTCTTTTTTATGATGGAGATCATCTTTAAATTATTTGCTTCCGCCTGGAG
TTCTTTCACCACAAGTTTGAGATCCTGGATGCCGTCGTGGTGGTGGTCTCATTATCCTCGACATTGTCTCCTCTG
TTCCAGGAGCACCAGTTTGAGGCTCTGGGCCTGCTGATTCTGCTCCGGCTGTGGCGGTGGCCCGGATCATCAAT
GGGATTATCATCTCAGTTAAGACACGTTTCAAGACGGCAACTCTTAAGGTTAAAACAGATGAATGTACAATTGGCC
GCCAAGATTCAACACCTTGAGTTTCTGCTCTGAGAAGGAACAAGAAATTGAAAGACTTAACAACTATTGCGA
CAGCATGGACTTCTTGGTGAAGTGAACTAGACCCGGACCAGCTCCCCTCAAAAAGAAGACACTGTCTCATGGGCC
TGTGCTGTACGAGAGGAACAGCTGCCCTCCTGGGCCGCTTGGTGAGAGGTTGGTTTGATACCTCTGCCTCCC
TCCTGCCAGCATGGATTCTGGGTGGACACAGCCTTGTGGAAGGTCCAGTACCACCAAGAGCTGCCCATCCACTCC
CACCCACACTGTATCAAAATGTATCACATTTTCTCATGTTGAACACTTTAGCCTTAATTGAAAATGAGCAACAAA
GCTGGACAATTGCTAGTTGTATATAAAATTTAATCTCACCGAATGTACAGTTTCAAATTTACGTGTATATTAA
GGAAGTGAATGCTGAGCATTCTGAAAGAAAGAAAAAGAGCTACTTTAGCTGCCACCCCATCTAGAAAAGTC
TCTTATTTTCAAGCTGTTCTAAATAGCTTCGTCTCAGTTTCCCCAAAAGGGTACCCAGGCCCTCCTCTGTGTG
CCCCAGCTGCATCAGCCAGCTTCTAGGTGGCTCCATTGTTTTCTGCCACCTGACAACATTTTCTCAATTACTG
TAACTACTGTATAAAATAAAACAACACTACTGTATAAAATAAACTCTCTCTTTCCCTGGAAAAA

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FIGURE 1956

MATWDEKAVTRRAKVAPAERMSKFLRHFTVVGDDYHAWNINYKKWENEEEEEEQPPPTPVSGEVIIICLVVLD
ALLVLAELIDLKIIQPDKNNYAAMVFHYMSITILVFFMMEIIFKLFVFRLEFFHHKFEILDAVVVVVSFILDIV
LLFQEHQFEALGLLILLRLWRVARIINGIIISVKTRSERQLRLKQMNVLAAKIQHLEFSCSEKEQEIERLNKL
LRQHGLLGEVN

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FIGURE 1957

CTTCTCTGCCAGAAGATACCATTTCAACTTTAACACAGCATGATCGAAACATACAACCAAACCTTCTCCCCGATCT
GCGGCCACTGGACTGCCCATCAGCATGAAAATTTTATGTATTTACTTACTGTTTTTCTTATCACCCAGATGATT
GGGTCAGCACTTTTTGCTGTGTATCTTCATAGAAGGTTGGACAAGATAGAAGATGAAAGGAATCTTCATGAAGAT
TTTGTATTTCATGAAAACGATACAGAGATGCAACACAGGAGAAAGATCCTTATCCTTACTGAACTGTGAGGAGATT
AAAAGCCAGTTTGAAGGCTTTGTGAAGGATATAATGTTAAACAAAGAGGAGACGAAGAAAGAAAACAGCTTTGAA
ATGCAAAAAGGTGATCAGAATCCTCAAATTGCGGCACATGTCATAAGTGAGGCCAGCAGTAAAACAACATCTGTG
TTACAGTGGGCTGAAAAAGGATACTACACCATGAGCAACAACCTGGTAACCTGGAAAAATGGGAAACAGCTGACC
GTTAAAAGACAAGGACTCTATTATATCTATGCCCCAAGTCACCTTCTGTTCCAATCGGGAAGCTTCGAGTCAAGCT
CCATTTATAGCCAGCCTCTGCCTAAAGTCCCCGGTAGATTGAGAGAATCTTACTCAGAGCTGCAAAATACCCAC
AGTTCCGCCAAACCTTGCGGGCAACAATCCATTCACTTGGGAGGAGTATTGAATTGCAACCAGGTGCTTCGGTG
TTGTCAATGTGACTGATCCAAGCCAAGTGAGCCATGGCACTGGCTTCACGTCCTTTGGCTTACTCAAACCTCTGA

ACAGTGTACCTTGCAGGCTGTGGTGGAGCTGACGCTGGGAGTCTTCATAATACAGCACAGCGGTTAAGCCCACC
CCCTGTAACTGCCTATTTATAACCCTAGGATCCTCCTTATGGAGAACTATTTATTATACACTCCAAGGCATGTA
GAACGTGAATAAGTGAATTACAGGTCACATGAAACCAAAACGGGCCCTGCTCCATAAGAGCTTATATATCTGAAG
CAGCAACCCCACTGATGCAGACATCCAGAGAGTCTTATGAAAAGACAAGGCCATTATGCACAGGTTGAATTCTGA
GTAAACAGCAGATAACTTGCCAAGTTCAGTTTTGTTTCTTGGCTGCAGTGTCTTCCATGGATAATGCATTTGA
TTTATCAGTGAAGATGCAGAAGGGAAATGGGGAGCCTCAGCTCACATTCACTTATGGTTGACTCTGGGTTCCCTAT
GGCCTTGTGGAGGGGGCCAGGCTCTAGAACGTCTAACACAGTGGAGAACCGAAACCCCCCCCCCCCCCGCC
ACCCTCTCGGACAGTTATTCATTCTCTTTCAATCTCTCTCTCTCCATCTCTCTCTTTCAGTCTCTCTCTCTCAAC
CTCTTTCTTCCAATCTCTCTTTCTCAATCTCTCTGTTTCCCTTTGTCACTCTCTTCCCTCCCCAGTCTCTCTTC
TCAATCCCCCTTTCTAACA
CACACAGAGTCAGGCCGTTGCTAGTCAGTTCTCTTTTCCACCTGTCCCTATCTCTACCACTATAGATGAGGG
TGAGGAGTAGGGAGTGCAGCCCTGAGCCTGCCCACTCCTCATTACGAAATGACTGTATTTAAAGGAAATCTATTG
TATCTACCTGCAGTCTCCATTGTTTCCAGAGTGAACCTGTAATTATCTTGTATTATTTTGAATAATAAAGA
CCTCTTAACATTAATA

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FIGURE 1958

MIETYNQTS PRSAATGLPISMKIFMYLLTVFLITQMIGSALFAVYLHRRLDKIEDERNLHEDFVFMKTIQRCNTG
ERSLSLLNCEEIKSQFEGFVKDIMLNKEETKKENSFEMQKGDQNPQIAAHVISEASSKTTSVLQWAEKGYTMSN
NLVTLENGKQLTVKRQGLYYIYAQVTFCSNREASSQAPF IASLCLKSPGRFERILLRAANTHSSAKPCGQOSIHL
GGVFELQPGASVFNVTDP SQVSHGIGFTSFGLLKL

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FIGURE 1959

GGGCTGCAGGTTTCGACCCGCGCTGGCGAGTCATGAGCGCCAAGTTTCCCACTGGCGCGCAAACCTTGAGTTACTT
TTGAGCGTGGATACTGGCGAAGAGGCTGCGGGCGGTATTAGCGTTTGACGCGACTTGCTCGGGCAGCTGACCCC
AAAGTGTCTGTCTTCCTTCCTCTGCTTGTCTCTAGGCTCTGAACTGCGGGCGGCCACCGGACGCTTCTGGAGCAG
GTAGCAGCATGCAGCCGCTCCAAGTCTGTGCGGACGCGCCCTGGTTGCGCTGGTTCTTGCTGCGGCTGTGCG
GGATCTGGGGAGAGGAGAGAGGCTTCCCGCCCGACAGGGCCACTCCGCTTTTGCAAACCGCAGAGATAATGACGC
CACCCACTAAGACCTTATGGCCCAAGGGTTCCAACGCCAGTCTGGCGCGGTGCTTGGCACCTGCGGAGGTGCCTA
AAGGAGACAGGACGGCAGGATCTCCGCCACGCACCATCTCCCTCCCCCGTGCCAAGGACCCATCGAGATCAAGG
AGACTTTCAAATACATCAACACGGTTGTGTCTGCTTGTGTTGCTGCTGGGGATCATCGGGAACCTCCACACTTC
TGAGAATTATCTACAAGAACAAGTGCATGCGAAACGGTCCCAATATCTTGATCGCCAGCTTGGCTCTGGGAGACC
TGCTGCACATCGTCATTGACATCCCTATCAATGTCTACAAGCTGCTGGCAGAGGACTGGCCATTTGGAGCTGAGA
TGTGTAAGCTGGTGCCTTTTCATACAGAAAGCCTCCGTGGGAATCACTGTGCTGAGTCTATGTGCTCTGAGTATTG
ACAGATATCGAGCTGTTGCTTCTTGAGTAGAATTAAAGGAATTGGGGTTCCAAAATGGACAGCAGTAGAAATTG
TTTTGATTTGGGTGGTCTCTGTGGTTCTGGCTGTCCCTGAAGCCATAGGTTTTGATATAATTACGATGGACTACA
AAGGAAGTTATCTGCGAATCTGCTTTCATCCCGTTGAGAAGACAGCTTTTCATGCAGTTTTACAAGACAGCAA
AAGATTGGTGGCTGTTTCAGTTTCTATTTCTGCTTGCCATTGGCCATCACTGCATTTTTTTATACACTAATGACCT
GTGAAATGTTGAGAAAGAAAAGTGGCATGCAGATTGCTTTAAATGATCACCTAAAGCAGAGACGGGAAGTGGCCA
AAACCGTCTTTTGCTGGTTCCTTGTCTTTGCCCTCTGCTGGCTTCCCTTCACCTCAGCAGGATTCTGAAGCTCA
CTCTTTATAATCAGAATGATCCCAATAGATGTGAACCTTTGAGCTTTCTGTTGGTATTGGACTATATTGGTATCA
ACATGGCTTCACTGAATTCCTGCATTAAACCAATTGCTCTGTATTTGGTGAGCAAAAGATTCAAAACTGCTTTA
AGGCTGGGCCACATGTTGGAAATAAGCTAGTAATGTTGTTTTCTGTCAATATTGAATGTGATGGTACAGTAAACC
AAAACCCAACAATGTGGCCAGAAAGAAAGAGCAATAATAATTAATTCACACACCATATGGATTCTATTTATAAAT
CAC

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FIGURE 1960

MQPPPSLCGRALVALVLACGLSRIWGEERGFPDRATPLLQTAEIMTPPTKTLWPKGSNASLARSLAPAEVPGD
RTAGSPPTIISPPPCQGP I E I K E T F K Y I N T V V S C L V F V L G I I G N S T L L R I I Y K N K C M R N G P N I L I A S L A L G D L L H
I V I D I P I N V Y K L L A E D W P F G A E M C K L V P F I Q K A S V G I T V L S L C A L S I D R Y R A V A S W S R I K G I G V P K W T A V E I V L I
W V V S V L A V P E A I G F D I I T M D Y K G S Y L R I C L L H P V Q K T A F M Q F Y K T A K D W W L F S F Y F C L P L A I T A F F Y T L M T C E M
L R K K S G M Q I A L N D H L K Q R R E V A K T V F C L V L V F A L C W L P L H L S R I L K L T L Y N Q N D P N R C E L L S F L L V L D Y I G I N M A
S L N S C I N P I A L Y L V S K R F K N C F K A G P H V G N K L V M L F S V N I E C D G T V N Q N P T M W P E R K S N N N

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FIGURE 1961

TCTTGCTGCGCCTCCGCCTCCTCCTCTGCTCCGCCACCGGCTTCCTCCTCCTGAGCAGTCAGCCCGCGCGCCGGC
CGGCTCCGTTATGGCGACCCGAGCCCTGGCGTCGTGATTAGTGATGATGAACCAGGTTATGACCTTGATTTATT
TTGCATACCTAATCATTATGCTGAGGATTTGGAAAGGGTGTTTATTCTCATGGACTAATTATGGACAGGACTGA
ACGTCTTGCTCGAGATGTGATGAAGGAGATGGGAGGCCATCACATTGTAGCCCTCTGTGTGCTCAAGGGGGGCTA
TAAATTCTTTGCTGACCTGCTGGATTACATCAAAGCACTGAATAGAAATAGTGATAGATCCATTCTATGACTGT
AGATTTTATCAGACTGAAGAGCTATTGTAATGACCAGTCAACAGGGGACATAAAAGTAATTGGTGGAGATGATCT
CTCAACTTTAACTGGAAAGAATGCTTGATTGTGGAAGATATAATTGACACTGGCAAAACAATGCAGACTTTGCT
TTCCTTGGTCAGGCAGTATAATCCAAAGATGGTCAAGGTCGCAAGCTTGCTGGTGAAGGACCCACGAAGTGT
TGGATATAAGCCAGACTTTGTTGGATTGAAATTCAGACAAGTTTGTGTAGGATATGCCCTTGACTATAATGA
ATACTTCAGGGATTTGAATCATGTTTGTGTCATTAGTGAACTGGAAAAGCAAAATACAAAGCCTAAGATGAGAG
TTCAAGTTGAGTTTGGAAACATCTGGAGTCCTATTGACATCGCCAGTAAAATTATCAATGTTCTAGTTCTGTGGC
CATCTGCTTAGTAGAGCTTTTTGCATGTATCTTCTAAGAATTTTATCTGTTTTGTACTTTAGAAATGTCAGTTGC
TGCATTCTAACTGTTTTATTGCACTATGAGCCTATAGACTATCAGTTCCCTTTGGGCGGATTGTTGTTTAACT
TGTAATGAAAAAATCTCTTAAACCACAGCACTATTGAGTGAAACATTGAACTCATATCTGTAAGAAATAAAGA
GAAGATATATTAGTTTTTTAATTGGTATTTTAAATTTTATATATGCAGGAAAGAATAGAAGTGATTGAATATTGT
TAATTATACCACCGTGTGTTAGAAAAGTAAGAAGCAGTCAATTTTCACATCAAAGACAGCATCTAAGAAGTTTTG
TTCGTCTCGGAATTATTTTAGTAGTGTTCAGTAATGTTGACTGTATTTTCCAACCTGTTCAAATTATTACCAG
TGAATCTTTGTCAGCAGTTCCCTTTTAAATGCAAATCAATAAATCCCAAAAATTT

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FIGURE 1962

MATRSPGVVISDDEPGYDLDLFCIPNHYAEDLERVFIPHGLIMDRTERLARDVMKEMGGHHIVALCVLKGGYKFF
ADLLDYIKALNRNSDRSIPMTVDFIRLKSVCNDQSTGDIKVIGGDDLSTLTGKNVLIVEDIIDTGKTMQTLLSLV
RQYNPKMVKVASLLVKRTPRSVGYKPDFVGFEIPDKFVVGYALDYNEYFRDLNHVCVISETGKAKYKA

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FIGURE 1963A

GATCCCATCGCAGCTACCGCGATGAGAGGCGCTCGCGGCGCCTGGGATTTTCTCTGCGTTCTGCTCCTACTGCTT
CGCGTCCAGACAGGCTCTTCTCAACCATCTGTGAGTCCAGGGGAACCGTCTCCACCATCCATCCATCCAGGAAAA
TCAGACTTAATAGTCCGCGTGGGCGACGAGATTAGGCTGTTATGCACTGATCCGGGCTTTGTCAAATGGACTTTT
GAGATCCTGGATGAAACGAATGAGAATAAGCAGAATGAATGGATCACGGAAGGCAGAGCCACCAACACCGGC
AAATACACGTGCACCAACAAACACGGCTTAAGCAATTCCATTATGTGTTTGTAGAGATCCTGCCAAGCTTTTC
CTTGTTGACCGCTCCTTGTATGGGAAAGAAGACAACGACACGCTGGTCCGCTGTCTCTCACAGACCCAGAAGTG
ACCAATTATTCCTCAAGGGGTGCCAGGGGAAGCCTCTTCCCAAGGACTTGAGGTTTATTCTGACCCCAAGGCG
GGCATCATGATCAAAAGTGTGAAACGCGCCTACCATCGGCTCTGTCTGCATTGTTCTGTGGACCAGGAGGGCAAG
TCAGTGCTGTGGGAAAAATTCATCCTGAAAGTGAGGCCAGCCTTCAAAGCTGTGCCTGTTGTGTCTGTGTCCAA
GCAAGCTATCTTCTTAGGGAGGGGAAGAATTCACAGTGACGTGCACAATAAAAGATGTGTCTAGTTCTGTGTAC
TCAACGTGGAAAAGAGAAAAACAGTCAGACTAACTACAGGAGAAATATAATAGCTGGCATCACGGTGACTTCAAT
TATGAACGTACGGCAACGTTGACTATCAGTTCAGCGAGAGTTAATGATTCTGGAGTGTTTATGTGTTATGCCAAT
AATACTTTTGGATCAGCAAATGTCACAACAACCTTGGAAGTAGTAGATAAAGGATTCAATTAATATCTTCCCCATG
ATAAACACTACAGTATTTGTAAACGATGGAGAAAAATGTAGATTTGATTGTTGAATATGAAGCATTCCCCAACCT
GAACACCAGCAGTGATCTATATGAACAGAACCTTCACTGATAAATGGGAAGATTATCCCAAGTCTGAGAATGAA
AGTAATATCAGATACGTAAGTGAACCTTCATCTAACGAGATTAAGGCACCGAAGGAGGCACCTACACATTCCTA
GTGTCCAATTCTGACGTCAATGCTGCCATAGCATTAAATGTTTATGTGAATACAAAACAGAAATCCTGACTTAC
GACAGGCTCGTGAATGGCATGCTCCAATGTGTGGCAGCAGGATTCCCAGAGCCCACAATAGATTGGTATTTTGT
CCAGGAAGTGAAGCAGAGATGCTCTGCTTCTGTACTGCCAGTGGATGTGCAGACACTAACTCATCTGGGCCACCG
TTTGAAAGCTAGTGGTTCAGAGTTCTATAGATTCTAGTGCATTCAAGCACAATGGCAGGTTGAATGTAAGGCT
TACAACGATGTGGGCAAGACTTCTGCCTATTTTAACTTTGCATTTAAAGGTAACAACAAGAGCAAATCCATCCC
CACACCTGTTTCACTCCTTTGCTGATTGGTTTCGTAATCGTAGCTGGCATGATGTGCATTATTGTGATGATTCTG
ACCTACAAATATTTACAGAAACCCATGTATGAAGTACAGTGGAAGGTTGTGAGGAGATAAATGGAACAATTAT
GTTTACATAGACCCAAACACAACCTTCTTATGATCACAAATGGGAGTTTCCAGAAACAGGCTGAGTTTGGGAAA
ACCTTGGGTGCTGGAGCTTTTCGGGAAGGTTGTTGAGGCAACTGCTTATGGCTTAATTAAGTCAGATGCGGCCATG
ACTGTCGCTGTAAAGATGCTCAAGCCGAGTGCCCATTTGACAGAACGGGAAGCCCTCATGTCTGAACCTCAAAGTC
CTGAGTTACCTTGGTAATCACATGAATATTGTGAATCTACTTGGAGCCTGCACCATTGGAGGGCCACCTGGTC
ATTACAGAATATTGTTGCTATGGTGATCTTTTGAATTTTGTAGAAGAAAACGTGATTCAATTTATTTGTTCAAAG
CAGGAAGATCATGCAGAAGCTGCACCTTTATAAGAATCTTCTGCATTCAAAGGAGTCTTCTGCAGCGATAGTACT
AATGAGTACATGGACATGAAACCTGGAGTTTCTTATGTTGTCCCAACCAAGGCCGACAAAAGGAGATCTGTGAGA
ATAGGCTCATACATAGAAAGAGATGTGACTCCCGCCATCATGGAGGATGACGAGTTGGCCCTAGACTTAGAAGAC
TTGCTGAGCTTTTCTTACCAGGTGGCAAAGGGCATGGCTTCTCTCGCCTCCAAGAATTGTAATTCACAGAGACTTG
GCAGCCAGAAATATCCTCCTTACTCATGGTCGGATCACAAAGATTTGTGATTTTGGTCTAGCCAGAGACATCAAG
AATGATTCTAATTATGTGGTTAAAGGAAACGCTCGACTACCTGTGAAGTGGATGGCACCCTGAAAGCATTTCAC
TGTGTATACAGTTTGAAGTGACGTCTGGTCTATGGGATTTTCTTTGGGAGCTGTTCTCTTTAGGAAGCAGC
CCCTATCCTGGAATGCCGGTCGATTCTAAGTTCTACAAGATGATCAAGGAAGGCTTCCGGATGCTCAGCCCTGAA
CACGCACCTGCTGAAATGTATGACATAATGAAGACTTGCTGGGATGCAGATCCCCATAAAAGACCAACATTCAAG
CAAATTGTTTACGCTAATTGAGAAGCAGATTCAGAGAGCACCATCATATTTACTCCAACCTTAGCAAACCTGCAGC
CCCAACCGACAGAAGCCCGTGGTAGACCATCTGTGCGGATCAATTCTGTGCGCAGCACCGCTTCCCTCCTCCCAG
CCTCTGCTGTGACGACGATGCTTGAGCAGAATCAGTGTTTGGGTCACCCCTCCAGGAATGATCTCTTCTTTT
GCTTCCATGATGGTTATTTCTTTTCTTTCAACTTGATCCAACCTCCAGGATAGTGGGCACCCCACTGCAATCCT
GTCTTTCTGAGCACACTTAGTGCCGATGATTTTGTCTATCAGCCACCATCCTATTGCAAAGGTTCCAACCTGTA
TATATTCCCAATAGCAACGTAGCTTCTACCATGAACAGAAAACATTCTGATTGGAAAAAGAGAGGGAGGTATGG
ACTGGGGGCCAGAGTCCTTCCAAGGCTTCTCCAATTCTGCCAAAAATATGTTGATAGTTTACCTGAATAAAT
GGTAGTAATCAGATTGGCCTTCAGAACCATCCATAGTAGTATGATGATACAAGATTAGAAGCTGAAAACCTAAG
TCCTTTATGTGGAAGACAGACATCATTAGAACAAAGGACAGAGTATGAACACCTGGGCTTAAGAAATCTAGTAT
TTCATGCTGGGAATGAGACATAGGCCATGAAAAAATGATCCCAAGTGTGAACAAAAGATGCTCTTCTGTGGAC
CACTGCATGAGCTTTTATACTACCGACCTGGTTTTTAAATAGAGTTTGTATTAGAGCATTGAATGGAGAGAAG

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FIGURE 1963B

GCCTCCCTAGCCAGCACTTGTATATACGCATCTATAAATTGTCCGTGTTTCATACATTTGAGGGGAAAAACACCATA
AGGTTTCGTTTTCTGTATACAACCTGGCATTATGTCCACTGTGTATAGAAGTAGATTAAGAGCCATATAAGTTTG
AAGGAAACAGTTAATACCATTTTTTAAGGAAACAATATAACCACAAAGCACAGTTTGAACAAAATCTCCTCTTTT
AGCTGATGAACCTTATTCTGTAGATTCTGTGGAACAAGCCTATCAGCTTCAGAATGGCATTGTACTCAATGGATTT
GATGCTGTTTGACAAAGTTACTGATTCACCTGCATGGCTCCACAGGAGTGGGAAAAACACTGCCATCTTAGTTTGG
ATTCTTATGTAGCAGGAAATAAAGTATAGGTTTAGCCTCCTTCGCAGGCATGTCCTGGACACCGGGCCAGTATCT
ATATATGTGTATGTACGTTTGTATGTGTGTAGACAAATATTTGGAGGGGTATTTTTGCCCTGAGTCCAAGAGGGT
CCTTTAGTACCTGAAAAGTAACCTTGGCTTTTATTATTAGTACTGCTCTTGTCTTTTTCACATAGCTGTCTAGAG
TAGCTTACCAGAAGCTTCCATAGTGGTGCAGAGGAAGTGAAGGCATCAGTCCCTATGTATTTGCAGTTCACCTG
CACTTAAGGCACTCTGTTATTTAGACTCATCTTACTGTACCTGTTCCCTTAGACCTTCCATAATGCTACTGTCTCA
CTGAAACATTTAAATTTTACCCTTTAGACTGTAGCCTGGATATTATTCTTGTAGTTTACCTCTTTAAAAACAAAA
CAAAACAAAACAAAAAACTCCCTTCCCTCACTGCCCAATATAAAAGGCAAATGTGTACATGGCAGAGTTTGTGTG
TTGTCTTGAAAGATTAGGTATGTTGCCCTTTATGGTTTCCCCCTTCTACATTTCTTAGACTACATTTAGAGAACT
GTGGCCGTTATCTGGAAGTAACCATTTGCACCTGGAGTTCTATGCTCTCGCACCTTTCCAAAGTTAACAGATTTTG
GGGTTGTGTGTGTCACCCAAGAGATTGTTGTTTGGCATACTTTGTCTGAAAAATTCCTTTGTGTTTCTATTGACTT
CAATGATAGTAAGAAAAGTGGTTGTTAGTTATAGATGTCTAGGTACTTCAGGGGCACTTCATTGAGAGTTTGTGTC
TTGCCATACTTTGTCTGAAAAATTCCTTTGTGTTTCTATTGACTTCAATGATAGTAAGAAAAGTGGTTGTTAGTT
ATAGATGTCTAGGTACTTCAGGGGCACTTCATTGAGAGTTTGTCAATGTCTTTTGAATATTCCTCAAGCCCATGA
GTCCTTGAAAAATTTTTTATATATACAGTAACTTTATGTGTAAATACATAAGCGGCGTAAGTTTAAAGGATGTT
GGTGTTCACGTGTTTTATTCTGTATGTTGTCCAATTGTTGACAGTTCTGAAGAATTC

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FIGURE 1964

MRGARGAWDFLCVLLLLLRVQTGSSQPSVSPGEPSPPSIHGKSDLIVRVGDEIRLLCTDPGFVKWTFEILDET
ENKQNEWITEKAEATNTGKYTCTNKHGLSNSIYVFVRDPAKFLVDRSLYGKEDNDTLVRCPLTDPEVTNYS
CQGKPLPKDLRFIPDPKAGIMIKSVKRAYHRLCLHCSVDQEGKSVLSEKFILKVRPAFKAVPVVSVSKASYLL
GEEFTVTCTIKDVSSSVYSTWKRENSQTKLQEKYNSWHHGDFNYERQATLTISSARVNDSGVFMCIYANNTFG
VTTTLEVVVDKGFINIFPMINTTVFVNDGENVDLIVEYEAFKPEHQQWIYMNRTFTDKWEDYPKSENE
ELHLTRLKGTEGGTYTFLVSNSDVNAAIAFNVYVNTKPEILTYDRLVNGMLQCVAAGFPEPTIDWYFCPGTE
SASVLPVDVQTLNSSGPPFGKLVVQSSIDSSAFKHNGTVECKAYNDVGKTSAYFNFAFKGNNKEQIHPHTLFT
LIGFVIVAGMMCIIVMILTYKYLQKPMYEVQWKVVEEINGNNYVYIDPTQLPYDHKWEFPRNRLSFGKTLG
GKVVEATAYGLIKSDAAMTVAVKMLKPSAHLTEREALMSELKVLSYLGNNHMNIVNLLGACTIGGPTLVITEY
GDLLNFLRRKRDSFICSKQEDHAEAAALYKNLLHSESSCSDSTNEYMDMPGVSYVVP TKADKRRSVRIGSY
DVTPAIMEDELALDLEDLLSFSYQVAKGMAFLASKNCIHRDLAARNILLTHGRITKICDFGLARDIKNDSNYV
KGNARLPVKWMAPEIFNCVYTFESDVWSYGIFLWELFSLGSSPYPGMPVDSKFYKMIKEGFRMLSPEHAPA
DIMKTCWDADPLKRPTFKQIVQLIEKQISESTNHIYSNLANCSPNRQKPVVDHVRINSVGSTASSSQPLL
V

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FIGURE 1965

AACAACATCCTGGGATTGGGACCCACTTTCTGGGCACTGCTGGCCAGTCCCAAATGGAACATAAGGAAGTGTT
CTTCTACTTCTTTTATTTCTGAAATCAGGTCAAGGAGAGCCTCTGGATGACTATGTGAATACCCAGGGGGCTTCA
CTGTTTCAGTGTCTACTAAGAAGCAGCTGGGAGCAGGAAGTATAGAAGAAATGTGCAGCAAAATGTGAGGAGGACGAA
GAATTCACCTGCAGGGCATTCCAATATCACAGTAAAGAGCAACAATGTGTGATAATGGCTGAAAACAGGAAGTCC
TCCATAATCATTAGGATGAGAGATGTAGTTTTTATTTGAAAAGAAAGTGATCTCTCAGAGTGCAAGACTGGGAAT
GGAAAGAACTACAGAGGGACGATGTCCAAAACAAAAATGGCATCACCTGTCAAAAATGGAGTTCCACTTCTCCC
CACAGACCTAGATTCTCACCTGTACACACCCCTCAGAGGGACTGGAGGAGAACTACTGCAGGAATCCAGACAAC
GATCCGCAGGGGCCCTGGTGCTATACTACTGATCCAGAAAAGAGATATGACTACTGCGACATTCTTGAGTGTGAA
GAGGAATGTATGCATTGCAGTGGAGAAAACATGACGGCAAAATTTCCAAGACCATGTCTGGACTGGAATGCCAG
GCCTGGGACTCTCAGAGCCACACGCTCATGGATACATTCTTCCAAATTTCCAAACAAGAACCTGAAGAAGAAT
TACTGTCTGTAACCCCGATAGGGAGCTGCGGCCCTTGGTGTTCACCACCGACCCCAACAAGCGCTGGGAACTTTGC
GACATCCCCCGCTGCACAACACCTCCACCATCTTCTGGTCCCACCTACCAGTGTCTGAAGGGAACAGGTGAAAAC
TATCGCGGGAATGTGGCTGTACCGTTTCCGGGCACACCTGTGAGCACTGGAGTGCACAGACCCCTCACACACAT
AACAGGACACCAGAAAACCTTCCCCTGCAAAAATTTGGATGAAAACACTGCGCAATCTGACGGAAGAAAGGGCC
CCATGGTGCCATACAACCAACAGCCAAGTGCGGTGGGAGTACTGTAAGATACCGTCTGTGACTCCTCCCCAGTA
TCCACGGAACAATTGGCTCCCACAGCACCACCTGAGCTAACCCCTGTGGTCCAGGACTGCTACCATGGTGATGGA
CAGAGCTACCGAGGCACATCTCCACCACCACCACAGGAAAGAAGTGTGAGTCTTGGTCTATGACACCACAC
CGGCACCAGAAGACCCCAAGAACTACCCAAATGCTGGCCTGACAATGAAGTACTGCAGGAATCCAGATGCCGAT
AAAGGCCCCCTGGTGTTTTACCACAGACCCAGCGTCAAGTGGGAGTACTGCAACCTGAAAAATGCTCAGGAACA
GAAGCGAGTGTGTAGCACCTCCGCCCTGTGTCTGCTTCCAGATGTAGAGACTCCTTCCGAAGAAGACTGTATG
TTTGGGAATGGGAAAGGATACCGAGGCAAGAGGGCGACCACTGTTACTGGGACGCCATGCCAGGACTGGGCTGCC
CAGGAGCCCCATAGACACAGCATTCTTACTCCAGAGACAAATCCACGGGCGGGTCTGGAAAAAATTACTGCCGT
AACCTGATGGTGATGTAGGTGGTCCCTGGTGCTACACGACAAATCCAAGAAAACCTTACGACTACTGTGATGTC
CCTCAGTGTGCGGCCCTTTCATTGTGATTGTGGGAAGCCTCAAGTGGAGCCGAAGAAATGTCTGGAAGGGTTGTG
GGGGGTGTGTGGCCCAACCCACATTCTGGCCCTGGCAAGTCAAGTCTTAGAACAAGTTTGGAAATGCACTTCTGT
GGAGGCACCTTGATATCCCCAGAGTGGGTGTGACTGTGCCCCTGCTTGGAGAAGTCCCCAAGGCCTTCATCC
TACAAGGTCTATCCTGGGTGCACACCAAGAAGTGAATCTCGAACCGCATGTTTCAAGAAATAGAAGTGTCTAGGCTG
TTCTTGGAGCCCACACGAAAAGATATTGCCTTGCTAAAGCTAAGCAGTCCCTGCGTCATCACTGACAAAGTAATC
CCAGCTTGTCTGCCATCCCCAAATTATGTGGTCTGCTGACCGGACCGAATGTTTCACTACTGGCTGGGGAGAAACC
CAAGGTACTTTTGGAGCTGGCCTTCTCAAGGAAGCCAGCTCCCTGTGATTGAGAATAAAGTGTGCAATCGCTAT
GAGTTTCTGAATGGAAGAGTCCAATCCACCGAACTCTGTGCTGGGCATTTGGCCGGAGGCACTGACAGTTGCCAG
GGTGACAGTGGAGGTCTCTGGTTTGTCTCGAGAAGGACAAATACATTTTACAAGGAGTCACTTCTTGGGGTCTT
GGCTGTGCACGCCCAATAAGCCTGGTGTCTATGTTCTGTTTCAAGTTTGTACTTGGATTGAGGGAGTGATG
AGAAATAATTAATTGGACGGGAGACAGAGTGACGCACTGACTCACCTAGAGGCTGGGACGTGGGTAGGGATTAG
CATGCTGGAAATAACTGGCAGTAATCAACGAAGACACTGTCCCAGCTACCAGCTACGCCAAACCTCGGCATT
TTTGTGTTATTTCTGACTGCTGGATTCTGTAGTAAGGTGACATAGCTATGACATTTGTTAAAAATAAAGTCTGT
ACTTAACCTTGATTGAGTAAATTTTGGTTTT

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FIGURE 1966

MEHKEVLLLLLLFLKSGQGEPLDDYVNTQGASLFSVTKKQLGAGSIEECAAKCEEDEEFTCRAFQYHSKEQQCVI
MAENRKSSIIIRMRDVVLFEEKVYLSECKTGNGKNYRGTMSTKNGITCQKWSSTSPHRPRFSPATHPSEGLEEN
YCRNPDNDPQGPWCYTDDPEKRYDYCDILECEEECMHCSGENYDGKISKTMGLECQAWDSQSPHAHGYIPSKFP
NKNLKKNYCRNPDRELRPWCFTTDPNKRWELCDIPRCTTPPPSSGPTYQCLKGTGENYRGNVAVTVSGHTCQHWS
AQTPHTHNRTPENFPCKNLDENYCRNPDGKRAPWCHTTNSQVRWEYCKIPSCDSSPVSTEQLAPTAPPELTPVVQ
DCYHGDGQSYRGTSSTTTTGKKCQSWSSMTPHRHQKTPENYPNAGLTMNYCRNPDADKGPWCFTTDPNKRWEYCN
LKKCSGTEASVVAPPVLLPDVETPSEEDCMFNGNGKGYRGKRATTVTGTPCQDWAAQEPHRSIFTPETNPRAG
LEKNYCRNPDGDVGGPWCYTTNPRKLYDYCDVPQCAAPSFDCGKPQVEPKKCPGRVVGCVAPHSWPWQVSLRT
RFGMHFCGGTLISPEWVLTAAHCLKSPRPSSYKVILGAHQEVNLEPHVQEIIEVSRLFLEPTRKDIALKLSSPA
VIIDKVIPACLPSPNYVVADRTECFITGWGETQGTGAGLLKEAQLPVIENTVCNRYEFLNGRVQSTELCAGHLA
GGTDCQGDSSGGLVCFEKDKYILQGVTSWGLGCARPKNKPGVYVRVSRFVTWIEGVMRNN

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FIGURE 1967

CGGCGCCGCGAGCTTCTCCTCTCCTCAGACCGAGGCAGAGCAGTCATTATGGCGAACCTTGGCTGCTGGATGCT
GGTTCTCTTTGTGGCCACATGGAGTGACCTGGGCTCTGCAAGAAGCGCCGAAGCCTGGAGGATGGAACACTGG
GGGCAGCCGATACCCGGGGCAGGGCAGCCCTGGAGGCAACCGCTACCCACCTCAGGGCGGTGGTGGCTGGGGGCA
GCCTCATGGTGGTGGCTGGGGGCAGCCTCATGGTGGTGGCTGGGGGCAGCCCCATGGTGGTGGCTGGGGACAGCC
TCATGGTGGTGGCTGGGGTCAAGGAGGTGGCACCACAGTCAGTGGAAACAAGCCGAGTAAGCCAAAAACCAACAT
GAAGCACATGGCTGGTGGCTGCAGCAGCTGGGGCAGTGGTGGGGGGCCTTGGCGGCTACATGCTGGGAAGTGCCAT
GAGCAGGCCCCATCATACATTTTCGGCAGTGACTATGAGGACCGTTACTATCGTGAAAACATGCACCGTTACCCCAA
CCAAGTGTACTACAGGCCCATGGATGAGTACAGCAACCAGAACAACCTTGTGCACGACTGCGTCAATATCACAAT
CAAGCAGCACAGGTCAACCACAACCACCAAGGGGGAGAACCTTACCAGAGACCGACGTTAAGATGATGGAGCGCGT
GGTTGAGCAGATGTGTATCACCCAGTACGAGAGGGGAATCTCAGGCCTATTACCAGAGAGGATCGAGCATGGTCTCT
CTTCTCCTCTCCACCTGTGATCCTCCTGATCTCTTTCTCATCTTCTGATAGTGGGATGAGGAAGGTCTTCTCTG
TTTTACCATCTTTCTAATCTTTTTCCAGCTTGAGGGAGGCGGTATCCACCTGCAGCCCTTTAGTGGTGGTGTG
TCACTCTTTCTTCTCTTTGTCCCGGATAGGCTAATCAATACCTTGGCACTGATGGGCACTGGAAAACATAGA
GTAGACCTGAGATGCTGGTCAAGCCCCCTTTGATTGAGTTTCATCATGAGCCGTTGCTAATGCCAGGCCAGTAAAA
GTATAACAGCAAATAACCATTTGGTTAATCTGGACTTATTTTTGGACTTAGTGCAACAGGTTGAGGCTAAAACAAA
TCTCAGAACAGTCTGAAATACCTTTGCCTGGATACCTTGGCTCCTTCAGCAGCTAGAGCTCAGTATACTAATGC
CCTATCTTAGTAGAGATTTATAGCTATTTAGAGATATTTTCCATTTTAAGAAAACCCGACAACATTTCTGCCAG
GTTTGTIAGGAGGCCACATGATACTTATTCAAAAAATCCTAGAGATTCTTAGCTCTTGGGATGCAGGCTCAGCC
CGCTGGAGCATGAGCTCTGTGTGTACCGAGAACTGGGGTGATGTTTTACTTTTCACAGTATGGGCTACACAGCAG
CTGTTCAACAAGAGTAAATATTGTCACAACACTGAACCTCTGGCTAGAGGACATATTCACAGTGAACATAACTGT
AACATATATGAAAGGCTTCTGGGACTTGAAATCAATGTTTGGGAATGGTGCCCTTGGAGGCAACCTCCCATTTT
AGATGTTTTAAAGGACCCATATATGTGGCATTCTTTCTTTAACTATAGGTAATTAAGGCAGCTGAAAAGTAAATT
GCCTTCTAGACACTGAAGGCAAATCTCCTTTGTCCATTTACCTGGAAACCAGAATGATTTTGACATACAGGAGAG
CTGCAGTTGTGAAAGCACCATCATCATAGAGGATGATGTAATTAATAAATGGTCAGTGTGCAAGAAAAGAACTG
CTTGCAATTTCTTTATTTCTGTCTCATAATTGTCAAAAACCAGAATTAGGTCAAGTTCATAGTTTCTGTAATTGGC
TTTTGAATCAAAGAATAGGGAGACAATCTAAAAAATATCTTAGGTTGGAGATGACAGAAATATGATTGATTGAA
GTGGAAAAAGAAATTTCTGTTAATGTTAATTAAAGTAAAATTATTCCTGAATTGTTGATATTGTCACCTAGCAG
ATATGTATTACTTTTCTGCAATGTTATTATTGGCTTGCACCTTGTGAGTATCTATGTAATAATATATATGTATAT
AAAATATATATTGCATAGGACAGACTTAGGAGTTTGTGTTAGAGCAGTTAACATCTGAAGTGTCTAATGCATTAA
CTTTTGTAAAGGTACTGAATACTTAATATGTGGGAAACCTTTTGGCTGGTCTTAGGCTTACAATGTGCACTGAA
TCGTTTCATGTAAGAATCCAAAGTGGACACCATTAAACAGGTCTTTGAAATATGCATGTACTTTATATTTTCTATA
TTTGTAACTTTGCATGTTCTGTTTTGTTATATAAAAAAATTGTAAATGTTTAATATCTGACTGAAATTAACGA
CCGAAGATGAGCACC

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FIGURE 1968

MANLGCWMLVLFVATWSDLGLCKKRPKPGGWNTGGSRYPGQGSPPGNRYPPQGGGGWGQPHGGGGWGQPHGGGGWGQ
PHGGGGWGQPHGGGGWGQGGGTHSQWNKPSKPKTNMKHMAGAAAAGAVVGGLGGYMLGSAMSRPIIHFGSDYEDRY
RENMHRYPNQVYYRPMDEYSNQNNFVHDCVNITIKQHTVTTTTKGENFTETDVKMMERVVEQMCITQYERESQAY
YQRGSSMVLFSPPVILLISFLIFLIVG

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FIGURE 1969

CCACGCGTCCGCGGACGCGTGGGCGAGAAGTGCTTCCAAGCGTCCATTTTGAGCCTTGGAACCTACGACGACCAA
AGGGCCACGGGTTCTGCGGTCGTTTCTCATTTCGCTCGAGTTAAACGCTCTGGGGCTGCTTCTGAGGAATCAGCTT
GGCTGGCCAGCAAGTTTCTGAGCTCCGCGCAAGTCATTGATTACCCGGTGATGAAATGCGGGGTCAACCAGTCTGTGG
GCTTTCCACCTGTACAGGACCCACCTCGTAGGCTGTGGGGATGTGATGGAGGGTCAGAATCTCCAGGGGAGCT
TCTTTGCACTCTTCTACCCCTGCCAAAAGGCAGAGGAGACCATGGAGCAGCCCTGTGGATTCCCCGCTATGAGT
ACTGCACTGGCCTGGCCGAGTACCTGCAGTTTAAATAAGCGCTGCGGGGGCTTGCTGTTCACCTGGCGGTGGGAT
CTTGTCGCCTGCTGTAGCTGGAATGGCCCTTTAAGACAAAGGACTCTGGATACCCCTTGATCATCTTCTCCC
ATGGCCTAGGAGCCTTCAGGACTTTGTATTACGCTTCTGCATGGAGCTGGCCTCACGTGGCTTTGTGGTTGCTG
TGCCAGAGCACAGGACCGGTGAGCGCAACCACCTATTTCTGCAAGCAGGCCCCAGAAGAGAACCAGCCCACCA
ATGAATCGCTGCAAGGAGGAATGGATCCCTTTCCGTCGAGTTGAGGAAGGGGAGAAGGAATTTTCATGTTCCGAATC
CCCAGGTGCATCAGCGGTAAGCGAGTGTTTACGGGTGTGGAAGATCTGCAAGAGGTCAGTGTGGGCAGACTG
TCTTCAACATCTTGCCTGGTGGCTTGGATCTGATGACTTTGAAGGGCAACATTGACATGAGCCGTGTGGCTGTGA
TGGGACATTCTTTGGAGGGGCCACAGCTATTCTGGCTTTGGCCAAGGAGACCCAATTTCCGGTGTGGGTGGCTC
TGGATGCTTGGATGTTTCTCTGGAACGTGACTTTTACCCCAAGGCCGAGGACCTGTGTTCTTTATCAATACTG
AGAAATTCAGACAATGGAGAGTGTCAATTTGATGAAGAAGATATGTGCCAGCATGAACAGTCTAGGATCATAA
CCGTTCTTGGTTCTGTTTCATCGGAGTCAAAGTACTTTGCTTTTGTGACTGGCAACTTGATTGGTAAATCTTCT
CCACTGAAACCCGTGGGAGCCTGGACCCCTATGAAGGCGAGGAGTTATGGTACGGGCCATGTTGGCCTTCTCTGC
AGAAGCACCTCGACCTGAAAGAAGACTATAATCAATGGAACAACCTTATTGAAGGCATTGGACCGTCGCTCACC
CAGGGGCCCCCACCATCTGTCCAGCCTGTAGGCACAAGTGGCCATTTGTAAAGTCACTTCAGCCAAGTTTTTCAT
TTGGGAGCTACCCAAGGGCACCCATGAGCTCCTATCAAGAAGTGATCAACGTGACCCCTTTTCACAGATTGAAAG
GTGTAATCACACTGCTGCTTGGATAACTGGGTACTTTGATCTTAGATTTGATCTTAAATCACTTTGGGACTGGG
ATCCCTTGCTGATTGACAAACAGACTTTCTGGGACCTTGATGGAGTGGGGAACAAGCAGTAGAGTGGGACTGGGG
GAGACCCAGGCCCCGGGCTGAGCACTGTGAGGCCTGGATGTGAAGACTCAGCCAGCGAAGCTCATTCCCTTACC
CCCCGCCAGTGCTGCTGCTTCAGTGGAAGAGATGAAGCCAAAGGACAGAATGAAAATCCCTACCTTCAGAGACTC
TAGCCAGCCCAACACCATCTCTTCTACCTCTCAGCCTTCTCCCTCCCCAGGGCCACTTGTGAAGTCTGAGCA
CTTTATGTAAATTTCTAGGTGTGAGCCGTGATCACATTTTCTATTTATTTCCAAGTCTTCTCATTGTATGGAACA
TAGTACTACTTATACTTACAGTAGTAAGTTATACTTGTGAGCCACAGAGTGGCAGACAGCATGGCTCTCACAGC
ACAGGGAGAAAACTGAGGTACACAGAGGTACCTCAGAAGCTCTGGATGTCTTTGGGGGTTTTGCTAAGTGTATC
TTGATAGGAAACAACAAAAGCAGGTTGAGATGGGGAAGATGACAGAACAACAGTGTTAAATGGCCATTTGCACAG
GCCTTTGCCACAACAGAGAAGTAGTTTGGTCAGCTAAAAGTCAAGTGCAGCCTGGACAGTAGAGCGAGACCCCAT
CTTAAAAATAAAGAAGGCTGGGCGTGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGCAGA
TCACTTAAGGCCAGGAGTTCAAGACCACCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAAAAT
AGCCTGGCGTAATGGCAGGCGCCTATAATCCAGCTACTCAGGAGGCTGAAGCAGAAGAATCACTTGAACCTAGG
AGGCGGAGGTTGCAGTGAGTCAAGATCGCGCCACTGCCTCAGCCTGGGTGACAGAGCAAGACTCTGTCTT

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FIGURE 1970

MGVNQSVGFPPVTGPHLVGCGDVMEGQNLQGSFFRLFYPCQKAEETMEQPLWIPRYEYCTGLAEYLQFNKRCGGL
LFNLAVGSCRLPVSWNGPFKTKDSGYPLIIFSHGLGAFRTLYSAFCELASRGFVVAVPEHRDRSAATTYFCKQA
PEENQPTNESLQEEWIPFRRVEEGEKEFHVRNPQVHQRVSECLRVLKILQEVTAGQIVFNILPGGLDMLTKGNI
DMSRVAVMGHSFEGGATAILALAKETQFRCAVALDAWMFPLERDFYPKARGPVFFINTEKFQTMESVNLMMKICAO
HEQSRIITVLGSVHRSQTDFAFVTGNLIGKFFSTETRGS LDPYEGQEV MVRAMLAF LQKHLDLKEDYNQWNNLIE
GIGPSLTPGAPHHLSSL

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FIGURE 1971

TTTCCAGCCATGGCTGCCATTACCTGACCAGCGCCACAGCCGGTCTCTCTGCAGGCGCCGGGAGAAGTGACCAGA
GCAATTTCTGCTTTTTCACAGGGCGGGTTTCTCAACGGTGACTTGTGGGCAGTGCCTTCTGCTGAGCGAGTCATGG
CCCGAAGGCAGAACTAACTGTGCCTGCAGTCTTCACTCTCAGGATCCAGCCGAGGTGGGCCCCAAGGGGCCACGAT
GTGGCTTGGAGTCCGTGCTGACCCCTTCTGCTCTGTTCAAGCCTTGAGGGTCAAGAAAACCTTTTACAAATCAACAG
TGTTGACATGAAGAGCCTGCCGACTGGACGGTGCAAAATGGGAAGAACCTGACCCTGCAGTGTTCGCGGATGT
CAGCACCACCTCTCACGTCAAGCCTCAGCACCAGATGCTGTTCTATAAGGATGACGTGCTGTTTTACAACATCTC
CTCCATGAAGAGCACAGAGAGTTATTTTATTCTGAAGTCCGGATCTATGACTCAGGGACATATAAATGTACTGT
GATTGTGAACAACAAAGAGAAAACCACTGCAGAGTACCAGGTGTTGGTGGAAGGAGTGCCAGTCCCAGGGTGAC
ACTGGACAAGAAAGAGGGCCATCCAAGGTGGGATCGTGAGGGTCAACTGTTCTGTCCCAGAGGAAAAGGCCCAAT
ACACTTCACAATTGAAAACTTGAACATAATGAAAAATGGTCAAGCTGAAAAGAGAGAAGAATTCTCGAGACCA
GAATTTTGTGATACTGGAATCCCCGTTGAGGAACAGGACCGCGTTTATCCTTCCGATGTCAAGCTAGGATCAT
TTCTGGGATCCATATGCAGACCTCAGAATCTACCAAGAGTGAACGGTCAACGTGACCGGAATCCTTCTCTACACC
CAAGTTCACATCAGCCCCACCGGAATGATCATGAAGGAGCTCAGCTCCACATTAAGTGCACCATTCAAGTGAC
TCACCTGGCCCAGGAGTTTCCAGAAATCATAATTGAGAAGGACAAGGCGATTGTGGCCCAACAGACATGGCAA
CAAGGCTGTGTACTCAGTCATGGCCATGGTGGAGCACAGTGGCAACTACAGTGCAAAGTGGAGTCCAGCCGCAT
ATCCAAGGTGAGCAGCATCGTGGTCAACATAACAGAATATTTTCCAAGCCGAACTGGAATCTTCTTCACACA
TCTGGACCAAGGTGAAAGACTGAACCTGTCTGCTCCATCCAGGAGCACCTCCAGCCAACCTTACCATCCAGAA
GGAAGATACGATTGTGTACAGACTCAAGATTTTACCAAGATAGCCTCAAAGTCCGACAGTGGGACGTATATCTG
CACTGCAGGTATTGACAAAGTGGTCAAGAAAAGCAACACAGTCCAGATAGTCGTATGTGAAATGCTCTCCAGCC
CAGGATTTCTTATGATGCCCAGTTGAGGTGATAAAAGGACAGACCATCGAAGTCCGTTGCGAATCGATCAGTGG
AACTTTGCCTATTTCTTACCACTTTTAAAAACAAGTAAAGTTTGGAGAATAGTACCAAGAACTCAAATGATCC
TGCGGTATTCAAAGACAACCCCACTGAAGACGTGCAATACCAGTGTGTTGCAGATAATTGCCATTCCCACGCCAA
AATGTTAAGTGAGGTCTGAGGGTGAAGGTGATAGCCCCGGTGGATGAGGTCCAGATTTCTATCTGTCAAGTAA
GGTGGTGGAGTCTGGAGAGGACATTGTGCTGCAATGTGCTGTGAATGAAGGATCTGGTCCCATCACCTATAAGTT
TTACAGAGAAAAGAGGGCAAACCTTCTATCAAATGACCTCAAATGCCACCCAGGCATTTGGACCAAGCAGAA
GGCTAACAAAGGAACAGGAGGGAGAGTATTACTGCACAGCCTTCAACAGAGCCAACACGCTCCAGTGTCCCCAG
AAGCAAAATACTGACAGTCAGAGTCATTCTTGCCCCATGGAAGAAAGGACTTATTGCAGTGGTTATCATCGGAGT
GATCATTGCTCTCTTGATCATTGCGGCCAAATGTTATTTCTGAGGAAAGCCAAGGCCAAGCAGATGCCAGTGGA
AATGTCCAGGCCAGCAGTACCCTTCTGAACTCCAACAACGAGAAAATGTCAGATCCCAATATGGAAGCTAACAG
TCATTACGGTCACAATGACGATGTCGGAACCATGCAATGAAACCAATAAATGATAATAAAGAGCCTCTGAACCTC
AGACGTGCAGTACACGGAAGTTCAAGTGTCTCAGCTGAGTCTCACAAGATCTAGGAAAGAAGGACACAGAGAC
AGTGATACAGTGAAGTCCGGAAGCTGTCCCTGATGCCGTGGAAGCAGATACTCTAGAACGGAAGGCTCCCTTGA
TGGAACCTTAGACAGCAAGGCCAGATGCACATCCCTGGAAGGACATCCATGTTCCGAGAAGAACAGATGATCCCTG
TATTTCAAGACCTCTGTGCACTTATTTATGAACCTGCCCTGCTCCACAGAACACAGCAATTCCTCAGGCTAAGC
TGCCGGTTCTTAAATCCATCCTGCTAAGTTAATGTTGGGTAGAAAGAGATACAGAGGGGCTGTTGAATTTCCAC
ATACACTCCTTCCACCAAGTTGGAACATCCTTGGAAATTGGAAGAGCACAAGAGGAGATCCAGGGCAAGGCCATT
GGGATATTCTGAAACTTGAATATTTTGTGTTGTGTCAGAGATAAAGACCTTTTCCATGCACCCTCATACACAGAAA
CCAATTTCTTTTTTATACTCAATCATTCTAGCGCATGGCCTGGTTAGAGGCTGGTTTTTCTCTTTTCTTTG
GTCCTTCAAAGGCTTGTAGTTTGGGTAGTCTTGTCTTTGGAATAACACAGTGTGACCAGACAGCCTCCCCC
TGTCCCTCTATGACCTCGCCCTCCACAAATGGGAAAACAGACTACTTGGGAGCACCGCCTGTGAAATACCAAC
CTGAAGACACGGTTCATTAGGCAACGCACAAAACAGAAAATGAAGGTGGAACAAGCACAGATGTTCTTCAACTG
TTTTTGCTACACTCTTTCTTTTCTTCTACCATGCTGAAGGCTGAAAGACAGGAAGATGGTGCCATCAGCAAA
TATTATTCTTAATTGAAAACCTGAAAAA

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FIGURE 1972

MQPRWAQGATMWLGVLTLTLLCSSLEGQENSFTINSVDMKSLPDWTVQNGKNLTLQCFADVSTTSHVKPQHQMFL
YKDDVLFYNISSMKSTESYFIPEVRIYDSGTYKCTVIVNNKEKTTAEYQVLVEGVPSPRVTLDKKEAIQGGIVRV
NCSVPEEKAPIHFTIEKLELNEKMKVKKREKNSRDQNFVILEFPVEEQDRVLSFRCQARIISGIHMQTSESTKSE
LVTVTESFSTPKFHISPTGMIMEGAQLHIKCTIQVTHLAQEFPEIIQKDKAIVAHNRHGNKAVYSVMAMVEHSG
NYTCKVESSRISKVSSIVVNITELFSKPELESSFTHLDQGERLNLSCSIPGAPPANFTIQKEDTIVSQTQDFTKI
ASKSDSGTYICTAGIDKVVKKSNTVQIVVCEMLSQPRISYDAQFEVIKQTIEVRCEISGTLPISYQLLKTSKV
LENSTKNSNDPAVFKDNPTEDVEYQCVADNCHSHAKMLSEVLRVKVIAPVDEVQISILSSKVVESGEDIVLQCAV
NEGSGPITYKFYREKEGKPFYQMTSNATQAFWTKQKANKEQEGEYYCTAFNRANHASSVPRSKILTVRVILAPWK
KGLIAVVIIGVIIALLIIAAKCYFLRKAKAKQMPVEMSRPAVPLLSNNEKMSDPNMEANSHYGHNDVGNHAMK
PINDNKEPLNSDVQYTEVQVSSAESHKDLGKKDTETVYSEVRKAVPDAVESRYSRTEGSLDGT

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FIGURE 1973

AGCTTTTCTCTTCTGTCAACCCACACGCCCTTTGGCACAATGAAGTGGGTAACTTTATTTCCCTTCTTTTTCTC
TTTAGCTCGGCTTATTCCAGGGGTGTGTTTCGTGAGATGCACACAAGAGTGAGGTTGCTCATCGGTTTAAAGAT
TTGGGAGAAGAAAATTTCAAAGCCTTGGTGTGATTGCCTTTGCTCAGTATCTTCAGCAGTGTCATTTTGAAGAT
CATGTAAAATTAGTGAATGAAGTAACTGAATTTGCAAAAACATGTGTTGCTGATGAGTCAGCTGAAAATTGTGAC
AAATCACTTCATACCCTTTTTTGAGACAAATTATGCACAGTTGCAACTCTTCGTGAAACCTATGGTGAATGGCT
GACTGCTGTGCAAAACAAGAACCCTGAGAGAAATGAATGCTTCTTGCAACACAAAGATGACAACCCAAACCTCCCC
CGATTGGTGAGACCAGAGGTTGATGTGATGTGCACTGCTTTTTCATGACAATGAAGAGACATTTTTGAAAAATAC
TTATATGAAATTGCCAGAAGACATCCTTACTTTTTATGCCCGGAACCTCTTTCTTTGCTAAAAGGTATAAAGCT
GCTTTTACAGAATGTTGCCAAGCTGCTGATAAAGCTGCCTGCCTGTTGCCAAGCTCGATGAACCTTCGGGATGAA
GGGAAGGCTTCGTCTGCCAAACAGAGACTCAAGTGTGCCAGTCTCCAAAAATTTGGAGAAAAGAGCTTTCAAAGCA
TGGGCAGTAGCTCGCCTGAGCCAGAGATTTCCCAAAGCTGAGTTTGCAGAAGTTTCCAAGTTAGTGACAGATCTT
ACCAAAGTCCACACGGAATGCTGCCATGGAGATCTGCTTGAATGTGCTGATGACAGGGCGGACCTTGCCAAGTAT
ATCTGTGAAAATCAAGATTGATCTCCAGTAACTGAAGGAATGCTGTGAAAAACCTCTGTTGAAAAATCCCAC
TGCAATTGCCGAAGTGGAATGATGAGATGCCTGCTGACTTGCCTTCATTAGCTGCTGATTTTGTGAAAGTAAG
GATGTTTGCAAAACATGCTGAGGCAAAGGATGTCTTCTGGGCATGTTTTGTATGAATATGCAAGAAGGCAT
CCTGATTACTCTGCTGCTGCTGCTGAGACTTGCCAAGACATATGAAACCACTCTAGAGAAGTGCTGTGCCGCT
GCAGATCCTCATGAATGCTATGCCAAAGTGTTCCATGAATTTAAACCTCTTGTGGAAGAGCCTCAGAATTTAATC
AAACAAAATTGTGAGCTTTTTGAGCAGCTTGGAGAGTACAAATTCAGAATGCGCTATTAGTTCGTTACACCAAG
AAAGTACCCCAAGTGTAACCTCAACTCTTGTAGAGGTCTCAAGAAACCTAGGAAAAGTGGGCAGCAAATGTTGT
AAACATCCTGAAGCAAAAAGAATGCCCTGTGCAGAAGACTATCTATCCGTGGTCTGAACCACTTATGTGTGTTG
CATGAGAAAACGCCAGTAAGTGACAGAGTCACCAATGCTGCACAGAATCCTTGGTGAACAGGCGACCATGCTTT
TCAGCTCTGGAAGTCGATGAAACATACGTTCCCAAAGAGTTTAATGCTGAAACATTACCTTCCATGCAGATATA
TGCACACTTTCTGAGAAGGAGAGACAAATCAAGAAACAACTGCACCTTGTGAGCTCGTGAAACACAAGCCCAAG
GCAACAAAAGAGCAACTGAAAGCTGTTATGGATGATTTTCGAGCTTTTGTAGAGAAGTGCTGCAAGGCTGACGAT
AAGGAGACCTGCTTTGCCGAGGAGGGTAAAAAATGTTGCTGCAAGTCAAGCTGCCTTAGGCTTATAACATCTA
CATTTAAAAGCATCTCAGCCTACCATGAGAATAAGAGAAAGAAAATGAAGATCAAAGCTTATTCATCTGTTTTT
TTTTTCGTTGGTGTAAAGCCAACACCCTGTCTAAAAAACATAAATTTCTTTAATCATTTTGCCTCTTTTCTCTGT
GCTTCAATTAATAAAAAATGGAAGAATCTAATAGAGTGGTACAGCACTGTTATTTTTCAAAGATGTGTTGCTAT
CCTGAAAATTCTGTAGGTTCTGTGGAAGTCCAGTGTCTCTTATTCCACTTCGGTAGAGGATTCTAGTTTC
TGTGGGCTAATTAATAAAATCACTAATACTCTTCTAAGTT

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FIGURE 1974

MKWVTFISLLFLFSSAYSRGVFRDAAHKSEVAHRFKDLGEENFKALVLI AFAQYLQQCPFEDHV KLVNEVTEFAK
TCVADESAENCDKSLHTLFGDKLCTVATLRETYGEMADCCAKQEPERNECFLOHKDDNPNLPRLVRPEVDMCTA
FHDNEETFLKKYLYEIIARRHPYFYAPELLFFAKRYKAAFTECCQAADKAACLLPKLDEL RDEGKASSAKQRLKCA
SLQKFGERAFAKAWAVARLSQRFPKAEFAEVSKLVDLT KVHTECCHGDLLECADDRADLAKYICENQDSISSKLK
ECCEKPLLEKSHCIAEVENDEMPADLP SLAADFVESKDVCKNYAEAKDVFLGMFLYEYARRHPDYSVVLLLRLAK
TYETTLEKCCAAADPHECYAKVFDEFKPLVEEPQNLIKQNC ELFQLG EYKFQNAL LVRYTKKVPQVSTPTLVEV
SRNLGKVGSKCKHP EAKRMPCAEDYLSVVLNQLCVLHEKTPVSDRVTKCTESLVNRRPCFSALEVD ETYVPKE
FNAETFTFHADICTLSEKERQIKQTALVELVKHKPKATKEQLKAVMDDFAAFVEKCKKADDKETCFAEEGKKLV
AASQAALGL

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FIGURE 1975

GGCACGAGGGTGTGCGTGATGGAGAAAATTGGGCACCGGGCTGCTCCCGAGATTCTCAGATCTGATTTCACGC
TTGCTACCAAAATAGTCTGGGCAGGCCACTTTTGAAGTAGGCGTTATCTAGTGAGCAGGCGGCCGCTTTCGATT
TCGCTTTCCCTAAATGGCTGAGCTTCTCGCCAGCGCAGGATCAGCCTGTTCTGGGACTTTCGAGAGCCCCGC
CCTCGTTCCCTCCCCAGCCGCCAGTAGGGGAGGACTCGGCGGTACCCGGAGCTTCAGGCCACCGGGGCGCGG
AGAGTCCCAGACCCGGCCGGGACCGGGACGGCGTCCGAGTGCCAATGGCTAGCTCTAGGTGTCCCGCTCCCCGCG
GGTGCCGCTGCTCCCCGGAGCTTCTCTCGCATGGCTGGGGACAGTACTGCTACTTCTCGCCGACTGGGTGCTGC
TCCGGACCGCGTCCCCCGCATATTCTCCCTGCTGGTGGCCACCGCGTGGCACTGCTCCGGGTCTGGGCGGTGG
GCCTGAGCCGCTGGGCCGTGCTCTGGCTGGGGGCTCGGGGGTCTCAGGGCAACGGTTGGCTCCAAGAGCGAAA
ACGCAGGTGCCAGGGCTGGCTGGCTGCTTTGAAGCCATTAGCTGCGGCACTGGGCTTGGCCCTGCCGGGACTTG
CCTTGTTCCGAGAGCTGATCTCATGGGGAGCCCCGGGTCCGCGGATAGCACCAGGCTACTGCCTGGGGAAGTC
ACCTACCGCCTTCGTTGTCACTTATGCAGCGGCACTGCCCCAGCAGCCCTGTGGCACAACTCGGGAGCCTCT
GGGTGCCCCGGCGTCAGGGCGGCTCTGGAAACCCTGTGCGTGGCTTCTAGGCTGCTGGGCTCGGAGACCGCC
GCCTCTCGCTGTTCTGGTCTGGTGGTCTCTCTCTCTTGGGGAGATGGCCATTCCATTCTTTACGGGCCGCC
TCACTGACTGGATTCTACAAGATGGCTCAGCCGATACCTTCACTCGAACTTAACTCTCATGTCCATTCTCACCA
TAGCCAGTGAGTGCTGGAGTTCGTGGGTGACGGGATCTATAACAACACCATGGGCCACGTGCACAGCCACTTGC
AGGGAGAGGTGTTTGGGGCTGTCTGCGCCAGGAGACGGAGTTTTTCCACAGAACCAGACAGGTAACATCATGT
CTCGGGTAACAGAGGACACGTCCACCCTGAGTGATTCTCTGAGTGAGAATCTGAGCTTATTCTGTGGTACCTGG
TGCGAGGCCTATGTCTCTTGGGGATCATGCTCTGGGGATCAGTGTCCCTCACCATGGTCACCCTGATCACCCTGC
CTCTGCTTTTCTTCTGCCCAAGAAGGTGGGAAAATGGTACCAGTTGCTGGAAGTGAGGTGGGGAATCTCTGG
CAAAGTCCAGCCAGGTGGCCATTGAGGCTCTGTGCGCCATGCTACAGTTGGAAGCTTTGCCAACGAGGAGGGCG
AAGCCCAGAAGTTTAGGGAAAAGCTGCAAGAAATAAGACACTCAACCAGAAGGAGGCTGTGGCCTATGCAGTCA
ACTCTGGACCACTAGTATTTAGGTATGCTGCTGAAAGTGGGAATCCTCTACATTGGTGGGCAGCTGGTGACCA
GTGGGGCTGTAAGCAGTGGGAACCTTGTACATTTGTTCTCTACCAGATGCAGTTACCCAGGCTGTGGAGGTAC
TGCTCTCCATCTACCCAGAGTACAGAAGGCTGTGGGCTCCTCAGAGAAAATATTTGAGTACCTGGACCGCACCC
CTCGCTGCCCACCCAGTGGTCTGTTGACTCCCTTACACTTGGAGGGCCTTGTCCAGTTCCAAGATGTCTCTTTG
CCTACCCAAACCGCCAGATGTCTTAGTGCTACAGGGGCTGACATTACCCCTACGCCCTGGCGAGGTGACGGCGC
TGGTGGGACCCAATGGGTCTGGGAAGAGCACAGTGGCTGCCCTGCTGCAGAACTGTACCAGCCACCGGGGGAC
AGCTGCTGTTGGATGGGAAGCCCCTTCCCCAATATGAGCACCGCTACCTGCACAGGCAGGTGGCTGCAGTGGGAC
AAGAGCCACAGGTATTTGGAAGAAGTCTTCAAGAAAATATTGCCTATGGCCTGACCCAGAAGCCAATATGGAGG
AAATCACAGCTGCTGCAGTAAAGTCTGGGGCCATAGTTTTCATCTCTGGACTCCCTCAGGGCTATGACACAGAGG
TAGACGAGGCTGGGAGCCAGCTGTGAGGGGTCAGCGACAGGCAGTGGCGTTGGCCCGAGCATTGATCCGGAAC
CGTGTGTACTTATCTGGATGATGCCACAGTGCCTGGATGCAAACAGCCAGTTACAGGTGGAGCAGCTCCTGT
ACGAAAGCCCTGAGCGGTACTCCGCTCAGTGCTTCTCATCCCCAGCACCTCAGCCTGGTGGAGCAGGCTGACC
ACATCCTCTTTCTGGAAGGAGGCGCTATCCGGGAGGGGGGAACCCACCAGCAGCTCATGGAGAAAAGGGGTGCT
ACTGGGCCATGGTGCAGGCTCCTGCAGATGCTCCAGAAATGAAAGCCTTCTCAGACCTGCGCACTCCATCTCCCTC
CCTTTTCTTCTCTGTGGTGGAGAACCACAGCTGCAGAGTAGCAGCTGCCTCCAGGATGAGTTACTTGAAATTT
GCCTTGAGTGTGTACCTCCTTTCCAAGCTCCTCGTGATAATGCAGACTTCTGGAGTACAAACACAGGATTTGT
AATTCCTACTGTAACGGAGTTTAGAGCCAGGGCTGATGCTTTGGTGTGGCCAGCACTCTGAAACTGAGAAATGTT
CAGAATGTACGGAAGATGATCAGCTATTTTCAACATAACTGAAGGCATATGCTGGCCATAAACACCCCTGTAGG
TTCTTGATATTTATAATAAAATTGGTGTTTTGT

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FIGURE 1976

MAELLASAGSACSWDFPRAPPSFPPPAASRGGLGGTRSFRPHRGAESPRPGRDRDGVRVPMASSRCPPAPRGCRCL
PGASLAWLGTVLLLLADWVLLRTALPRIFSLLVPTALPLLRVWAVGLSRWAVLWLGACGVLRAIVGSKSENAGAQ
GWLAALKPLAAALGLALPGLALFRELISWGAPGSADSTRLLHWGSHPTAFVVSAAAALPAAALWHKLGSLWVPGG
QGGSGNPVRRLLGCLGSETRRLSLFLVLVVLSSLGEMAIFFGTGRITDWILQDGSADTFTRNLTLMSILTIAV
LEFVGDIYNNMTMGHVHSHLQGEVFGAVLRQETEFFQQNQTGNIMSRVTEDTSTLSDSLSENLSLFLWYLVRLC
LLGIMLWGSVSLTMVTLITLPLLLFLLPKKVKGWYQLLEVQVRESLAKSSQVAIEALSAMPTVRSFANEEGEAQKF
REKLQEIKTNLQKEAVAYAVNSWTTISGMLLKVGILYIGGQLVTSGAVSSGNLVTFLVLYQMFTQAVEVLLSIY
PRVQKAVGSSEKIFEYLDRTPRCPPSGLLTPHLEGLVQFQDVSFAYPNRPDVLVLQGLTFTLRPGEVTLVGPV
GSGKSTVAALLQONLYQPTGGQLLLDGKPLPQYEHRYLHRQVAAVGQEPQVFGSLQENIAYGLTQKPTMEEITAA
AVKSGAHSFISGLPQGYDTEVDEAGSQLSGGQRQAVALARALIRKPCVLIILDDATSALDANSQLOVEQLLYESPE
RYSRSVLLITQHLSLVEQADHILFLEGGAIREGGTHQQLMEKKGCYWAMVQAPADAPE

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FIGURE 1977

CAGGGGACAGGCTGCAGCCGGTGCAGTTACACGTTTTCTCCAAGGAGCCTCGGACGTTGTACGGGTTTGGGGT
CGGGGACAGAGCAGTGACCAATGGCCAGGCTGGCGTTGTCTCCTGTGCCCAGCCACTGGATGGTGGCGTTGCTGCT
GCTGCTCTCAGCTGAGCCAGTACCAGCAGCCAGATCGGAGGACCGGTACCGGAATCCCAAAGGTAGTGCTTGTTT
GCGGATCTGGCAGAGCCACGTTTCATAGCCAGGAAACGGGGCTTCACGGTGAAAATGCACTGCTACATGAACAG
CGCCTCCGGCAATGTGAGCTGGCTCTGGAAGCAGGAGATGGACGAGAATCCCCAGCAGCTGAAGCTGGAAAAGGG
CCGCATGGAAGAGTCCCAGAACGAATCTCTCGCCACCCTCACCATCCAAGGCATCCGGTTTGAGGACAATGGCAT
CTACTTCTGTGTCAGCAGAAGTGCAACAACACCTCGGAGGTCTACCAGGGCTGCGGCACAGAGCTGCGAGTCATGGG
ATTCAGCACCTTGGCACAGCTGAAGCAGAGGAACACGCTGAAGGATGGTATCATCATGATCCAGACGCTGCTGAT
CATCCTCTTCATCATCGTGCCTATCTTCCTGTGTGCTGGACAAGGATGACAGCAAGGCTGGCATGGAGGAAGATCA
CACCTACGAGGGCCTGGACATTGACCAGACAGCCACCTATGAGGACATAGTGACGCTGCGGACAGGGGAAGTGAA
GTGGTCTGTAGGTGAGCACCCAGGCCAGGAGTGAGAGGCCAGGTGCCCCATGACCTGGGTGCAGGCTCCCTGGCC
TCAGTGACTGCTTCGGAGCTGCCTGGCTCATGGCCCCAACCCCTTTCTGGACCCCCCAGCTGGCCTCTGAAGCTG
GCCACACAGAGCTGCCATTTGTCTCCAGCCCCTGGTCCCCAGCTCTTGCCAAAGGGCCTGGAGTAGAAGGACAAC
AGGGCAGCAACTTGGAGGGAGTTCTCTGGGGATGGACGGGACCCAGCCTTCTGGGGGTGCTATGAGGTGATCCGT
CCCCACACATGGGATGGGGGAGGCAGAGACTGGTCCAGAGCCCGCAAATGGACTCGGAGCCGAGGGCCTCCCAGC
AGAGCTTGGGAAGGGCCATGGACCCAACTGGGCCCCAGAAGAGCCACAGGAACATCATTCTCTCCCGCAACCAC
TCCACCCCAGGGAGGCCCTGGCCTCCAGTGCCTTCCCCCGTGAATAAACGGTGTGTCCTGAGAAACCA

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FIGURE 1978

MARLALSPVPSHWMVALLLLSAEPVPAARSEDYRNPKGSAKSRIWQSPRFIARKRGFTVKMH CYMNSASGNVS
WLWKQEMDENPQQLKLEKGRMEESQNESLATLTIQGIRFEDNGIYFCQOKCNNTSEVYQCGTEL RVMGFSTLAQ
LKQ RNTLKDGIIMIQTLLIILFIIVPIFLLLDKDDSKAGMEEDHTYEGLDIDQTATYEDIVTLRTGEVKWSVGEH
PGQE

[illegible]

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FIGURE 1980

MQQPFNYYPQIYWVDSSASSPWAPPGTVLPCPTSVPRRPGQRRPPPPPPPPPLPPPPPPPLPPLPLPPLKKRG
NHSTGLCLLMFFMVLVALVGLGLGMFQLFHLQKELAELESTSQMHTASSLEKQIGHPSPPPEKKELRKVAHLT
GKSNSRSMPLEWEDTYGIVLLSGVKYKKGGLVINETGLYFVYSKVYFRGQSCNNLPLSHKVYMRNSKYPQDLVMM
EGKMMSYCTTGQMWARSSYLGAVFNLTSADHLYVNVSELSLVNFEESEQTFGLYKL

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FIGURE 1981

CTCCCTTTGGGCAAGGACCTGAGACCCTTGTGCTAAGTCAAGAGGCTCAATGGGCTGCAGAAGAACTAGAGAAGG
ACCAAGCAAAGCCATGATATTTCCATGGAAATGTCAGAGCACCCAGAGGGACTTATGGAACATCTTCAAGTTGTG
GGGGTGGACAATGCTCTGTTGTGATTTCCTGGCACATCATGGAACCGACTGCTGGACTTACCATTATTCTGAAAA
ACCCATGAACTGGCAAAGGGCTAGAAGATTCTGCCGAGACAATTACACAGATTTAGTTGCCATACAAAACAAGGC
GGAAATTGAGTATCTGGAGAAGACTCTGCCTTTCAGTCGTTCTTACTACTGGATAGGAATCCGGAAGATAGGAGG
AATATGGACGTGGGTGGGAACCAACAAATCTTACTGAAGAAGCAGAGAAGTGGGGAGATGGTGAGCCCAACAA
CAAGAAGAACAAGGAGGACTGCGTGGAGATCTATATCAAGAGAAACAAAGATGCAGGCAAATGGAACGATGACGC
CTGCCACAACTAAAGGCAGCCCTCTGTTACACAGCTTCTTGCCAGCCCTGGTCATGCAGTGGCCATGGAGAATG
TGTAAGAAATCATCAATAATTACACCTGCAACTGTGATGTGGGGTACTATGGGCCCCAGTGTGATTTGTGATTCA
GTGTGAGCCTTTGGAGGCCCCAGAGCTGGGTACCATGGACTGTACTCACCCCTTTGGGAAACTTCAGCTTCAGCTC
ACAGTGTGCCCTTCAGCTGCTCTGAAGGAACAACTTAACTGGGATTGAAGAAACCACCTGTGGACCATTGGA
CTGGTCATCTCCAGAACCAACCTGTCAAGTGATTGAGTGTGAGCCTCTATCAGCACCAGATTTGGGGATCATGAA
CTGTAGCCATCCCTGGCCAGCTTCAGCTTTACCTCTGCAITGACCTTCATCTGCTCAGAAGGAAGTGAATTAAT
TGGGAAGAAGAAAACCAATTTGTGAATCATCTGGAATCTGGTCAAATCCTAGTCCAATATGTCAAAAATTGGACAA
AAGTTTCTCAATGATTAAGGAGGGTGATTATAACCCCTCTTCATTCCAGTGGCAGTCAATGTTTACTGCATTCTC
TGGGTTGGCATTATCATTTGGCTGGCAAGGAGATTAAAAAAGGCAAGAAATCCAAGAGAAGTATGAATGACCC
ATATTAAATCGCCCTTGGTGAAAGAAAATTCTTGAATACTAAAAATCATGAGATCCTTTAAATCCTTCCATGAA
ACGTTTTGTGTGGTGGCACCTCCTACGTCAAACATGAAGTGTGTTTCCTTCAGTGCATCTGGGAAGATTTCTACC
TGACCAACAGTTCCTTCAGCTTCCATTTCGCCCCCTCATTATCCCTCAACCCCAAGCCACAGGTGTTTATACAG
CTCAGCTTTTTTGTCTTTTCTGAGGAGAAACAAATAAGACCATAAAGGGAAAGGATTTCATGTGGAATATAAGATG
GCTGACTTTGCTCTTTCTTGACTCTTGTTCAGTTTCAATTCAGTGTGCTGACTTGATGACAGACACTTCTAAAT
GAAGTGCAATTTGATACATATGTGAATATGGACTCAGTTTTCTTGAGATCAAATTTACGTCGTCTTCTGTAT
ACTGTGGAGGTACACTCTTATAGAAAGTTCAAAAAGTCTACGCTCTCCTTTCTTTCTAACTCCAGTGAAGTAATG
GGGTCCTGCTCAAGTTGAAAGAGTCCTATTTGCACTGTAGCCTCGCCGCTGTGTAATTGGACCATCCTATTTAAC
TGGCTTCAGCCTCCCCACCTTCTTCAGCCACCTCTCTTTTTTCAGTTGGCTGACTTCCACACCTAGCATCTCATGA
GTGCCAAGCAAAGGAGAGAAGAGAGAAATAGCCTGCGCTGTTTTTTAGTTTGGGGGTTTTGCTGTTTCTTTTA
TGAGACCCATTCTATTTCTTATAGTCAATGTTTCTTTTATCACGATATTATTAGTAAGAAAACATCACTGAAAT
GCTAGCTGCAAGTGACATCTCTTTGATGTCATATGGAAGAGTTAAACAGGTGGAGAAATTCCTTGATTCACAAT
GAAATGCTCTCTCTTTCCCTGCCCCCAGACCTTTTATCCACTTACCTAGATTCTACATATTCTTTAAATTTTCATC
TCAGGCCTCCCTCAACCCACCACTTCTTTATACTAGTCCTTTACTAATCCAACCCATGATGAGCTCCTCTTC
CTGGCTTCTTACTGAAAGGTTACCCTGTAACATGCAATTTGCATTTGAATAAGCCTGCTTTTTAAGTGTTAA

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FIGURE 1982

MIFPWKCQSTQORDLWNIFKLWGWITMLCCDFLAHHGTDCWTYHYSEKPMNWQARRFCRDNYTDLVAIQNKAEIEY
LEKTLPFSSYYWIGIRKIGGIWTWVGINKSLTEEAENWGDGEPNNKKNKEDCVEIYIKRNKDAGKWND DACHKL
KAALCYTASCQPWSCSGHGECEIINNYTCNCDVGYGPPQCQFVIQCEPLEAPELGTMDC THPLGNFSFSQCAF
SCSEGTNLTGIEETTCGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNC SHPLASFSTSACTFICSEGT ELIGKKK
TICSSGIWSNPSPICQKLDKSFSMIKEGDYNPLFIPVAVMVTAFSGLAFI IWLARRLKKGKSKRSMNDPY

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FIGURE 1983A

TAGACGCACCCCTCTGAAGATGGTGACTCCCTCCTGAGAAGCTGGACCCCTTGTTAAAAGACAAGGCCTTCTCCAA
GAAGAATATGAAGTGTACTCAGACTTATTTGTTTCATAGCTCTACTGATTTCTTCTGAGGCTGATAAATG
CAAGGAACGTGAAGAAAAATAATTTTAGTGTCATCTGCAAATGAAATTGATGTTCTGCTCCCTGTCTTAAACC
AAATGAACACAAAGGCACTATAACTTGGTATAAAGATGACAGCAAGACACCTGTATCTACAGAACAAGCCTCCAG
GATTCATCAACACAAAGAGAACTTTGGTTTGTTCCTGCTAAGGTGGAGGATTGAGGACATTACTATTGCGTGGT
AAGAAATTCATCTTACTGCCTCAGAATTAATAAAGTGCAAAATTTGTGGAGAATGAGCCTAATTATGTTATAA
TGCACAAGCCATATTTAAGCAGAACTACCCGTTGAGGAGACGGAGGACTTGTGTGCCCTTATATGGAGTTTTT
TAAAAATGAAAATAATGAGTTACCTAAATTACAGTGGTATAAGGATTGCAAACCTCTACTTCTTGACAATATACA
CTTTAGTGGAGTCAAAGATAGGCTCATCGTGATGAATGTGGCTGAAAAGCATAGAGGGAACCTATACTTGTCTATGC
ATCCTACACATACTTGGGCAAGCAATATCCTATTACCCGGGTAATAGAATTTATTACTCTAGAGGAAAAACAAACC
CACAAGGCTGTGATTGTGAGCCAGCTAATGAGACAATGGAAGTAGACTTGGGATCCCAGATACAATTGATCTG
TAATGTACCCGGCCAGTTGAGTGACATTGCTTACTGGAAGTGGAAATGGGTCAGTAATTGATGAAGTAGCCAGT
GCTAGGGGAAGACTATTACAGTGTGGAATTCCTGCAACAAAAGAGGAGTACCCTCATCAGTGCTTAATAT
ATCGGAAATGAAAGTAGATTTTATAAACATCCATTTACCTGTTTTGCCAAGAATACACATGGTATAGATGCAGC
ATATATCCAGTTAATATATCCAGTCACTAATTTCCAGAAGCACATGATTGGTATATGTGTACGTTGACAGTCAT
AATTGTGTGTTCTGTTTTTCATCTATAAAATCTTCAAGATTGACATTGTGCTTTGGTACAGGGATTCTGTCTATGA
TTTTCTCCCAATAAAAGCTTCAGATGGAAAGACCTATGACGCATATATACTGTATCCAAAGACTGTTGGGGAAGG
GTCTACCTCTGACTGTGATATTTTGTGTTTAAAGTCTTGCTGAGGTCTTGAAAAACAGTGTGGATATAAGCT
GTTCAATTTATGGAAGGGATGACTACGTTGGGGAAGACATTGTTGAGGTCATTAATGAAAACGTAAAGAAAAGCAG
AAGACTGATTATCATTTTTAGTCAGAGAAACATCAGGCTTCAGCTGGCTGGGTGGTTCATCTGAAGAGCAAATAGC
CATGTATAATGCTCTTGTTCAGGATGGAATTAAGTTGTCTGCTTGAGCTGGAGAAAATCCAAGACTATGAGAA
AATGCCAGAATCGATTAAATTCATTAAGCAGAAACATGGGGCTATCCGCTGGTCAGGGGACTTTACACAGGGACC
ACAGTCTGCAAAGACAAGGTTCTGGAAGAATGTCAGGTACCACATGCCAGTCCAGCGACGGTCACCTTCATCTAA
ACACCAGTTACTGTACACAGCCACTAAGGAGAACTGCAAAGAGAGGCTCACGTGCCCTCTCGGGTAGCATGGAGA
AGTTGCCAAGAGTTCTTTAGGTGCTCCTGTCTTATGGCGTTGCAGGCCAGGTTATGCCCTCATGCTGACTTGCAG
AGTTTCATGGAATGTAATATATCATCCTTTATCCCTGAGGTCACCTGGAATCAGATTATTAAGGGAATAAGCCAT
GACGTCAATAGCAGCCAGGGCACTTCAGAGTAGAGGGCTTGGGAAGATCTTTTAAAAAGGCAGTAGGCCCGGTG
TGGTGGCTCACGCCTATAATCCCAGCACTTTGGGAGGCTGAAGTGGGTGGATCACCAGAGGTCAGGAGTTCGAGA
CCAGCCAGCCACATGGCAAACCCCATCTCTACTAAAAATACAAAAATGAGCTAGGCATGGTGGCACACGCCCT
GTAATCCCAGCTACACCTGAGGCTGAGGCAGGAGAATTGCTTGAACCGGGGAGACGGAGGTTGCAGTGAGCCGAG
TTTGGGCCACTGCACTCTAGCCTGGCAACAGAGCAAGACTCCGTCTCAAAAAAGGGCAATAAATGCCCTCTCTG
AATGTTTGAAGTCCAAAGAAAAGGCATGGAGACAGCGAAGTGAAGAAAGGGCAAGAAGGAAATAGCCACCGTCT
ACAGATGGCTTAGTTAAGTCATCCACAGCCCAAGGGCGGGGCTATGCCTTGCTGTTGGGACCCTGTAGAGTCACTG
ACCTTGAGAGCGGCTCTCCTGAGAGGTGCTGCAGGCAAGTGAGACTGACACCTCACTGAGGAAGGGAGACATATT
CTTGGAGAATTTCCATCTGCTTGTATTTCCATACACATCCCCAGCCAGAAGTTAGTGTCCGAAGACCGAATTT
TATTTTACAGAGCTTGAAAACCTCACTTCAATGAACAAAGGGATTCTCCAGGATTCCAAAGTTTGAAGTCATCTT
AGCTTTCCACAGGAGGGAGAGAACTTAAAAAGCAACAGTAGCAGGGAATTGATCCACTTCTTAATGCTTTCTCTC
CCTGGCATGACCATCCTGTCTTTGTTATTATCTGCAATTTACGTCTTTGGAGGAACAGCTCCCTAGTGGCTTC
CTCCGTCTGCAATGTCCCTTGACAGCCACACATGAACCATCCTTCCCATGATGCCGCTCTTCTGTCTATCCGCG
TCCTGTGAAACACCTCCCAGGGGCTCCACCTGTTTCAGGAGCTGAAGCCCATGCTTTCCCACCAGCATGTCACTC
CCAGACCACCTCCCTGCCCTGTCTCCAGCTTCCCTCGCTGTCTGTGTAATCCCAGGTTGGCCTGGTG
GCCATGTGCGCTGCCCCAGCACTCCTGTCTCTGCTTGTGCTCGACCCTTCTCTCTCTTGCCTAGGAGGC
CTTCTCGCATTTTCTTAGCTGATCAGAAATTTACCAAAATTCAGAACATCTCCAATTCCACAGTCTCTGGGAG
ACTTTCCCTAAGAGGCGACTTCTCTCCAGCCTTCTCTCTCTGGTCAGGCCACTGCAGAGATGGTGGTGAGCAC
ATCTGGGAGGCTGGTCTCCCTCCAGCTGGAATTGCTGCTCTCTGAGGGAGAGGCTGTGGTGGCTGTCTCTGTCCC
TCACTGCCCTCCAGGAGCAATTTGCACATGTAACATAGATTATGTAATGCTTTATGTTTAAAAACATTCCCCAA
TTATCTTATTTAATTTTGAATTTTCTAATTTTATATATAGAGAAAGTGACCTATTTTTTAAAAAATCACAC
TCTAAGTTCTATTGAACCTAGGACTTGAGCCTCCATTTCTGGCTTCTAGTCTGGTGTCTGAGTACTTGATTCA

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FIGURE 1983B

GGTCAATAACGGTCCCCCTCACTCCACACTGGCAGTTTTGTGAGAAGAAATGACATTTTGCTAGGAAGTGACCG
AGTCTAGGAATGCTTTTTATTCAAGACACCAAATTCCAAACTTCTAAATGTTGGAATTTTCAAAAATTGTGTTTAG
ATTTTATGAAAACTCTTCTACTTTTCATCTATTCTTTCCCTAGAGGCAAACATTTCTTAAAATGTTTCATTTTCA
TTAAAAATGAAAGCCAAATTTATATGCCACCGATTGCAGGACACAAGCACAGTTTAAAGAGTTGTATGAACATGG
AGAGGACTTTTGGTTTTTATATTTCTCGTATTTAATATGGGTGAACACCAACTTTTTATTGGAATAATAATTTTC
CTCCTAAACAAAAACACATTGAGTTTAAGTCTCTGACTCTTGCCTTTCCACCTGCTTTCTCCTGGGCCCGCTTTG
CCTGCTTGAAGGAACAGTGCTGTTCTGGAGCTGCTGTTCCAACAGACAGGGCCTAGCTTTTCATTTGACACACAGA
CTACAGCCAGAAGCCCATGGAGCAGGGATGTCACGTCTTGAAAAGCCTATTAGATGTTTTACAAATTTAATTTTG
CAGATTATTTTAGTCTGTCATCCAGAAAATGIGTCAGCATGCTAGTGCTAAGAAAGCAAGCCAATTTGGAAACT
TAGGTTAGTGACAAAATTGGCCAGAGAGTGGGGTGATGATGACCAAGAATTACAAGTAGAATGGCAGCTGGAAT
TTAAGGAGGGACAAGAATCAATGGATAAGCGTGGGTGGAGGAAGATCCAAACAGAAAAGTGCAAAGTTATTCCCC
ATCTTCCAAGGGTTGAATTTCTGGAGGAAGAAGACACATTCCTAGTTCCCCGTGAACCTTCCTTTGACTTATTGTCC
CCACTAAAACAAAAACAAAAAATTTAATGCCTTCCACATTAATTAGATTTTCTTGCACTTTTTTATGGCATT
TTTTAAAGATGCCCTAAGTGTTGAAGAAGAGTTTGCAAATGCAACAAAAATATTTAATTACCGGTTGTTAAACT
GGTTTAGCACAAATTTATATTTTCCCTCTCTTGCCTTTCTTATTTGCAATAAAAGGTATTGAGCCATTTTTTAAAT
GACATTTTTGATAAATTATGTTTGTACTAGTTGATGAAGGAGTTTTTTTTTAACCTGTTTATATAATTTTGCAGCA
GAAGCCAAATTTTTTGTATATTAAAGCACCAAATTCATGTACAGCATGCATCACGGATCAATAGACTGTACTTAT
TTTCCAATAAAATTTTCAAACCTTTGTACTGTAAA

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FIGURE 1984

MKVLLRLICFIALLISSLEADKCKEREKIIILVSSANEIDVRPCPLNPNEHKGTTITWYKDDSKTPVSTEQASRIH
QHKEKLWFVPAKVEDSGHYCVVRNSSYCLRIKISAKFVENEPNLCYNAQAIFKQKLPVAGDGGLVCPYMEFFKN
ENNELPKLQWYKDCKPLLLDNIHFSGVKDRLIVMNVAEKHRGNYTCHASYTYLGKQYPITRVIEFITLEENKPTR
PVIVSPANETMEVDLGSQIQLICNVTGQLSDIAYWKWNGSVIDEDDPVLGEDYYSVENPANKRRSTLITVLNISE
IESRFYKHPFTCFAKNTHGIDAAYIQLIYPVTNFKHMGICVTLTVIIVCSVFIYKIFKIDIVLWYRDSYDFL
PIKASDGKTYDAYILYPKTVGEGSTSDCDIFVFKVLEVLKQCGYKLFYGRDDYVGEDIVEVINENVKKSRL
IIILVRETSGFSWLGSSEEQIAMYNALVQDGIKVVLELEKIQDYEKMPESIKFIKQKHGAIRWSGDFQTQGPQS
AKTRFWKNVRYHMPVQRRSPSSKHQLLSPATKEKLQREAHVPLG

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FIGURE 1985

ATGCACTTTCTTTGCCAAAGGCAAACGCAGAACGTTTCAGAGCCATGAGGATGCTTCTGCATTTGAGTTTGCTAG
CTCTTGAGCTGCCTACGTGTATGCCATCCCCACAGAAATCCCACAAGTGCATTGGTGAAAGAGACCTTGGCAC
TGCTTTCTACTCATCGAACTCTGCTGATAGCCAATGAGACTCTGAGGATTCCTGTTCTGTACATAAAAAATCACC
AACTGTGCACTGAAGAAATCTTTCAGGGAATAGGCACACTGGAGAGTCAAACGTGTGCAAGGGGGTACTGTGAAA
GACTATTCAAAAACCTTGCTCTTAATAAAGAAATACATTGACGGCCAAAAAAGTGTGGAGAAGAAAGACGGA
GAGTAAACCAATTCCTAGACTACCTGCAAGAGTTTCTTGGTGTAATGAACACCGAGTGGATAATAGAAAGT**TGAG**
ACTAAACIGGTTTGTTCAGCCAAAGATTTTGGAGGAGAAGGACATTTTACTGCAGTGAGAATGAGGGCCAAGAA
AGAGTCAGGCCTTAATTTTCAATATAATTTAACTTCAGAGGGAAGTAAATATTTTCAGGCATACTGACACTTTGC
CAGAAAGCATAAAATTCCTTAAATATATTTTCAGATATCAGAATCATTGAAGTATTTTCTCCAGGCAAAATTGAT
ATACTTTTTTCTTATTTAACTTAACATTCGTAAAAATGCTGTAACTTAATAGTATTTATGAAATGGTTAAGAA
TTTGGTAAATTAGTATTTATTTAATGTTATGTTGTGTTCTAATAAAACAAAAATAGACAACTGTTT

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FIGURE 1986

MRMLLHLSLLALGAAYVYAIPTEIPTTSALVKETLALLSTHRTLLIANETLRIPVPVHKNHQLCTEEIFQGIGTLE
SQTVOGGTVERLFKNLSLIKKYIDGQKKKCGEERRRVNQFLDYLQEF LGVMNTEWIIES

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FIGURE 1987

GTAATGCAGAGATAATAAAACCTTCTTAGGTCCATAGGTCTTATAATAATTTAATAACCTAAACATGGTATACAAA
TTCTTCCAAACCCAATAACATAATTATAGTTTCAAAAAGTTCCCCAACTTTCAAGTTAGATTTTATTGCTTTGA
TGAGTGGCTTTAAATATGAAAAGTCTTGCTGTGAAGGGCAATCCTTTTCCCGTGGACTGGGATCTATAGAAATA
CAGAAATGTGCCAGGGGTTTCTCTCCCTAATAACCATCATTACATTTCTCAACCTCCCTAATAACAGCCACC
ATGTGAGAAGGATCCACAGTTACTGTTTATGACTATAATTAAGTACCTGGGACTGGTCAGTGGAGTTGGTTG
CAACCTGATGCTAAGGATGTCAAAGTTGTCTCGGCCCTCTGTTCCAGCCAGTAAGTAATTCCTGGCCTCGGGCC
ATACCCCTAATCTTGGTCAGCTGATTATGACAGGCAGACAGCACAGTAAATAACACTATATATTAAGAAAACCC
AAAGCATATGTATCAATGGTATATACCCAACAGCATCCTAGGAATGGAGAGTCTGTAGCAAGGGCCTCCAATGTG
AAGGTCAACACAGTCACTGTGATGCGTGTATTTCCATTTTGTAAAGCATGATCTCTGGTGGTCATTTTTATCTTC
CTAACTTATTGGAAAAGTCTCCTGTTTTTGGGGCCCCGCCCTGGTTCACAGCCAGACTGACTCAGTTTCCCTGGGA
GGTCCCGCTCGAGCCCGTCTTCCCTCCCTCTGCCCCGCCCCAGCCCTCGCCCCACCCTCGCGCCCCGACATC
TGCTGTCTCAGCTCCAGACGGCGCCCGGACCCCCGGGCGCGGGATCCAGCCAGGTGGGAGCCCCGAGATGAGGT
CTCTGAAGGTGTGCCTGAACAGTGCCAGCCTGCCCTGTCTGCAGCATCGGCCTGATGGGGTGGTGAAGTATCCC
TCAGGGCTCCGGAGCCATGTGGGCCAACGCGAGTTCCCTGGGGCCCTGTTTTCCGGCCCAAAACATTACCCTGGA
GGAGAGACGGCTGATCGCTCGCCCTGGTTCCCGCCTCCTTCTGCGTGGTGGGCTGGCCTCCAACCTGCTGGC
CCTGAGCGTGTGGCGGGCGCGCGGAGGGGGTTTCGCACACGCGCTCCTCCTTCTCACCTTCTCTGCGGCCT
CGTCTTCAACGACTTCTGGGGCTGCTGGTGACCGGTACCATCGTGGTGTCCAGCAGCGCGCTCTTCGAGTG
GCACGCGTGGACCTGGCTGCCGTCTCTGTCGCTTTCATGGGCGTGTCTATGATCTTCTTCGGCTGTCCCCGCT
GCTGCTGGGGGCGCCATGGCCTCAGAGCGCTACCTGGGTATCAACCGGCCCTTCTCGCGCCCGCGGTGCGCTC
GCAGCGCGCGCCTGGGCCACCGTGGGGCTGGTGTGGGCGCGCGCTGGCGCTGGGCCTGCTGCCCTGCTGGG
CGTGGGTGCTACACCGTGAATAACCGGGGTCTGGTGTCTTCTGACGCTGGGCGCCGAGTCCGGGACGTGGC
CITTCGGGTGCTCTTCTCCATGCTGGGCGGCTCTCGGTGGGCTGTCTTCTGCTGAACACGGTCAGCGTGGC
CACCTGTGCCACGTCTACACGGGCAGGAGGCGGCCAGCAGCGTCCCCGGGACTCCGAGGTGGAGATGATGGC
TCAGCTCTGGGGATCATGGTGGTGGCCAGCGTGTGTGGCTGCCCTTCTGGTCTTATTGCCAGACAGTGTCT
GCGAAACCGCCTGCCATGAGCCCCGCGGGCAGCTGTCCCGCACCACGGAGAAGGAGTGTCTATCTACTTGGC
CGTGGCCACCTGGAACAGATCCTGGACCCCTGGGTGTATATCTGTTCGCGCGCGCGTGTCTCGGCGTCTCCA
GCCTCGCCTCAGCACCCGGGCCAGGTGCTGTCCCTCCAGCCCCAGCTCACGCAGCGCTCCGGGCTGCAGTAGGA
AGTGGACAGAGCGCCCTCCCGCGCCTTTCCGCGGAGCCCTTGGCCCTCGGACAGCCCATCTGCCTGTCTGAG
GATTACAGGGGCTGGGGGTGCTGGATGGACAGTGGGCATCAGCAGCAGGGTTTTGGGTGACCCCAATCCAACCCG
GGGACCCCAACTCCTCCCTGATCCTTTTACCAAGCACTCTCCCTTCTCGGCCCTTTTCCCATCCAGAGCTC
CCACCCCTTCTCTGCGTCCCTCCCAACCCAGGAAGGGCATGCAGACATTGGAAGAGGGTCTTGCAATTGCTATTT
TTTTTTTTAGACGGAGTCTTGCTCTGTCCCCAGGCTGGAGTGCAGTGGCGCAATCTCAGCTCACTGCAACCTCC
ACCTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCTCCTGAGTAGCTGGGACTATAGGCGCGCGCCACCACGCCC
GGCTAATTTTTGTATTTTTAGTAGAGACGGGGTTTACCGTGTGGCCAGGCTGGTCTGAACTCCTGACCTCAG
GTGATTACACAGCCTCAGCCTCCCAAAGTGTGGGATCACAGGCATGAACCACCACCTGGCCATTTTTTTTTT
TTTTTTAGACGGAGTCTCACTCTGTGGCCAGCCTGGAGTACAGTGGCACGATCTCGGCTCACTGCAACCTCCGC
CTCCCGGGTTCAAGCGATTCTCGTGCCTCAGCCTCCCGAGCAGTGGGATTACAGGCGTAAGCCACTGCGCCCGG
CCTTGATGCTCTTTGACCCTGAATTTGACCTACTTGCTGGGGTACAGTTGCTTCTTTTGAACCTCCAACAGGG
AAGGCTCTGTCCAGAAAGGATTGAATGTGAAACGGGGCACCCCTTTCTTGCCAAATATATCTCTGCCTTG
GTTTTAT

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FIGURE 1988

MWPNGSSLGPCFREPTNITLEERRLIASPWFAASFCVVGLASNLLALSVLAGARQGGSHTRSSFLTFLCGLVLTDF
LGLLVGTIVVSQHAALFEWHAVDPGCRLCRFMGVVMIFFGLSPLLLGAAMASERYLGITRPF SRPAVASQRRAW
ATVGLVWAAALALGLELLGVGRYTVQYPGSWCFLTIGAESGDVAFGLLF SMLGGLSVGLSFLNNTVSVATLCHV
YHGQEAQQRPDSEVEMMAQLLGIMVVASVCWLPLLVFIAQTVLRNPPAMSPAGQLSRTTEKELLIYLRVATWN
QILDPWVYILFRRRAVLRRLOPRLSTRPRSLSLQPOLTQORSGLQ

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FIGURE 1989

AAGACTCAAACCTTAGAAACTTGAATTAGATGTGGTATTCAAATCCTTACGTGCCGCGAAGACACAGACAGCCCC
GTAAGAACCCACGAAGCAGGCGAAGTTCATTGTTCTCAACATTCTAGCTGCTCTTGCTGCATTGCTCTGGAATT
CTGTAGAGATATTACTTGTCCTTCCAGGCTGTTCTTCTGTAGCTCCCTTGTTTTCTTTTTGTGATCATGTTGC
AGATGGCTGGGCAGTGCTCCCAAAATGAATATTTTGACAGTTTGTGTCATGCTTGCATACCTTGCAACTTCGAT
GTTCTTCTAATACTCCTCCTCTAACATGTCAGCGTTATTGTAATGCAAGTGTGACCAATTCAGTGAAAGGAACGA
ATGCGATTCTCTGGACCTGTTTGGGACTGAGCTTAATAATTTCTTTGGCAGTTTTCGTGCTAATGTTTTGCTAA
GGAAGATAAGCTCTGAACCAITAAAGGACGAGTTTAAAAACACAGGATCAGGTCTCCTGGGCATGGCTAACATTG
ACCTGGAAAAGAGCAGGACTGGTGATGAAATTATTCTTCCGAGAGGCCTCGAGTACACGGTGGAAGAATGCACCT
GTGAAGACTGCATCAAGAGCAAACCGAAGGTGACTCTGACCATTGCTTTCCACTCCCAGCTATGGAGGAAGGCG
CAACCAITCTTGTCACCACGAAAACGAATGACTATTGCAAGAGCCTGCCAGCTGCTTTGAGTGCTACGGAGATAG
AGAAATCAATTTCTGCTAGGTAATTAACCATTTGACTCGAGCAGTGCCACTTTAAAAATCTTTGTCAGAATAG
ATGATGTGTCAGATCTCTTTAGGATGACTGTATTTTTAGTTGCCGATACAGCTTTTGTCTCTAACTGTGGAA
ACTCTTTATGTTAGATATATTTCTCTAGGTTACTGTTGGGAGCTTAATGGTAGAACTTCCTTGTTTCATGATT
AAAGTCTTTTTTTTCTGA

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FIGURE 1990

MLQMAGQCSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYCNASVTNSVKGTNAILWTCLGLSLIISLAVFVLMF
LLRKISSEPLKDEFKNTGSGLLGMANIDLEKSRTGDEIILPRGLEYTVEECTCEDCIKSKPKVDSDFCFPLPAME
EGATILVTTKTNDYCKSLPAALSATEIEKSISAR

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FIGURE 1991A

ATACGGGAGAACTAAGGCTGAAACCTCGGAGGAACAACCACTTTTGAAGTGACTTCGCGGCGTGCGTTGGGTGCG
GACTAGGTGGCCCCGGCGGGAGTGTGCTGGAGCCTGAAGTCCACGCGCGGGCTGAGAACC GCCGGGACCGCACG
TGGGCGCCGCGCGCTTCCCCCGCTTCCCAGGTGGGCGCGCGGCCAGGCCACCTCACGTCCGGCCCCGGGGATG

CGCGTCTCTCGCCGCGCTGGGACTGCTGTTCTGGGGGCGCTACGAGCCTTCCCACAGGATCGACCCTTCGAG
GACACCTGTCA TGGAACCCAGCCACTACTATGACAAGGCTGTCAGGAGGTGCTGTTACCGCTGCCCATGGGG
CTGTTCCCGACACAGCAGTGCCACAGAGGCCTACTGACTGCAGGAAGCAGTGTGAGCCTGACTACTACCTGGAT
GAGGCCGACCGCTGTACAGCCTGCGTGACTTGTCTCGAGATGACCTCGTGGAGAAGACGCCGTGTGCATGGAAC
TCCTCCCGTGTCTGCGAATGTGACCCGGCATGTTCTGTTCCACGTCTGCCGTCAACTCCTGTGCCCGCTGCTTC
TTCCATTCTGTCTGTCCGGCAGGGATGATTGTCAAGTTCACAGGCACGGCGCAGAAGAACACGGTCTGTGAGCCG
GCTTCCCCAGGGGTGACCCCTGCCTGTGCCAGCCAGAGAACTGCAAGGAACCCCTCCAGTGGCACCATCCCCAG
GCCAAGCCACCCCGGTGTCCCCAGCAACCTCCAGTGCCAGCACCATGCCGTGAAGAGGGGGCACC CGCCTCGCC
CAGGAAGCTGCTTCTAAACTGACGAGGGTCTCCGACTCTCCCTCCTCTGTGGGAAGGCCTAGTTCAGATCCAGGT
CTGTCCCCAACACAGCCATGCCAGAGGGGTCTGGTGATTGCAGAAAGCAGTGTGAGCCCGACTACTACCTGGAC
GAGGCCGGCGCTGCACAGCCTGCGTGAGCTGTTCTCGAGATGACCTTGTGGAGAAGACGCCATGTGCATGGAAC
TCTCCCGCACCTGCGAATGTGACCTGGCATGATCTGTGCCACATCAGCCACCAACTCCTGTGCCCGCTGTGTC
CCCTACCCAATCTGTGCAGCAGAGACGGTACCAAGCCCCAGGATATGGCTGAGAAGGACACCACCTTTGAGGCG
CCACCCCTGGGGACCCAGCCGACTGCAACCCACCCAGAGAATGGCGAGGCGCCTGCCAGCACCAGCCCCACT
CAGAGCTTGCTGGTGGACTCCCAGGCCAGTAAGACGCTGCCCATCCCAACCAGCGCTCCCGTCTCTCTCTCTCCTCC
ACGGGGAGCCCGTCTGGATGCAGGGCCAGTGCTCTTCTGGGTGATCCTGGTGTGGTTGTGGTGGTGGGCTCC
AGCGCCTTCTCCTGTGCCACCGAGGGCCTGCAGGAAGCGAATTCGGCAGAAGCTCCACCTGTGCTACCCGGTC
CAGACCTCCCAGCCCAAGCTAGAGCTTGTTGGATTCCAGACCCAGGAGGAGCTCAACGCAGCTGAGGAGTGGTGCG
TCGGTGACAGAACCCGTCGCGGAAGAGCGAGGGTTAATGAGCCAGCCACTGATGGAGACCTGCCACAGCGTGGGG
GCAGCCTACCTGGAGAGCCTGCCGCTGCAGGATGCCAGCCGCGCGGGGGCCCCCTGTCCTCCCGAGGACCTTCTCCT
GAGCCCCGGGTGTCCACGGAGCACACCAATAACAAGATTGAGAAAATCTACATCATGAAGGCTGACACCGTGATC
GTGGGGACCGTGAAGGCTGAGCTGCCGGAGGGCCGGGGCCTGGCGGGGCCAGCAGAGCCCCGAGTTGGAGGAGGAG
CTGGAGGCGGACCATAACCCCACTACCCGAGCAGGAGACAGAACCGCCTCTGGGCAGCTGCAGCGATGTCAATG
CTCTCAGTGGAAAGAGGAAGGGAAAGAAGACCCCTTGCCACAGCTGCCTCTGGAAAGTGAGGCGCTGGGCTGGGCT
GGGGCTAGGAGGGCAGCAGGGTGGCCTCTGGGAGGCCAGGATGGCACTGTTGGCACCAGAGTTGGGGGCAGAGGC
CCATCTGGCCTGAACCTGAGGCTCCAGCATCTAGTGGTGGACCGGCCGCTCACTGCAGGGGTCTGGTGGTCTCTGC
TTGCATCCCCAACTTAGCTGTCCCTGACCCAGAGCCTAGGGGATCCGGGGCTTGTACAGAAGAGACAGTCCAAG
GGGACTGGATCCACAGCAGTGTGTTGGTTGAGGCAGAAACAGATGGCAGGATGGGCACTGCCGAGAACAGCATT
GGTCCCAGAGCCCTGGGCATCAGACCTTAACCACAGGCCCCACAGCCAGCGAGGGAGAGGTCTGTAGGCCAGCT
CCCGGGGCCCCGTGAACCCCTACTCTCTCTCTCCTGGACCTCAGAGGTGACACCCATTGGGGCCCTTCCGGCATG
CCCCAGTTACTGTAAATGTGGCCCCAGTGGGCATGGAGCCAGTGCTGTGGTTGTTTCTCCAGAGTCAAAAGG
GAAGTCGAGGGATGGGGCGTCGTACGCTGGCACTGTCTCTGCTGCAGCGGCCACACTGTA CTCTGCACTGGTGTG
AGGGCCCCCTGCCTGGACTGTGGGACCTCCTGGTGTGCCACCTTCCCTGTCTGTAGCCCCCTCGGTGGGGCC
AGGGCCTAGGGGCCAGGATCAAGTCACTCATCTCAGAATGTCCCCACCAATCCCCGCCACAGCAGGCGCCTCGG
GTCCCAGATGTCTGCAGCCCTCAGCAGCTGCAGACCGCCCCCTACCAACCCAGAGAACCTGCTTTACTTTGCCCA
GGGACTTCTCTCCCATGTGAACATGGGGAACCTCGGGCCCTGCCTGGAGTCTTGACCGCTCTCTGTGGGCCCCA
CCCACTCTGTCTGGGAAATGAAGAAGCATCTTCTTAGGTCTGCCCTGCTTGCAAATCCACTAGCACCAGCCCC
ACCACCTGGTTCCGGCTCTGCACGCTTGGGGGTGTGGATGTGAGAGGCACCACGGCCTCACCAGGCATCTGCT
TTACTCTGGACCATAGGAAACAAGACCGTTTGGAGGTTTCATCAGGATTTTGGGTTTTTTCACATTTACGCTAAG
GAGTAGTGGCCCTGACTTCCGGTGGCTGGCCAGCTGACTCCCTAGGGCCTTCAGACGTGTATGCAAATGAGTGA
TGGATAAGGATGAGTCTTGGAGTTGCGGGCAGCCTGGAGACTCGTGGACTTACCGCCTGGAGGCAGGCCCGGGAA
GGCTGCTGTTTACTCATCGGGCAGCCAGCTGCTCTCTGGAGGAAGTGATAGTTTCTGAAACCGCTCAGATGTTTT
GGGAAAGTTGGAGAAGCCGTGGCCTTGCAGAGGTTGTTACACCAGAACCTGGACATTGGCCAGAAGAAGCTTA
AGTGGGCAGACACTGTTTGGCCAGTGTGTGTGCAAGGATGGAGTGGGTGTCTCTGCATCACCACAGCCGCAGCT
GTAAGGCACGCTGGAAGGCACACGCTGCCAGGCAGGGCAGTCTGGCGCCCATGATGGGAGGGATTGACATGTTT

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FIGURE 1991B

CAACAAAATAATGCACTTCCTTAAAAAAA

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FIGURE 1992

MRVLLAALGLLFLGALRAFFQDRPFEDTCHGNPSHYDDKAVRRCCYRCPMGLFPTQQCPQRPTDCRKQCEPDYLL
DEADRCTACVTCSRDDLVEKTPCAWNSSRVCECRPGMFCSTSAVNSCARCFHVSVCAGMIVKFPGTAKNTVCE
PASPGVSPACASPENCKEPSSGTIPQAKTPVSPATSSASTMPVRGGTRLAQEAASKLTRAPDSPSSVGRPSSDP
GLSPTQPCPEGSGDCRKQCEPDYLLDEAGRCTACVCSRDDLVEKTPCAWNSSRTCECRPGMICATSATNSCARC
VPYPICAAETVTKPQDMAEKDITFEAPPLGTQPDNPTPENGEAPASTSPTQSLVDSQASKTLPIPTSAPVALS
STGKPVLDAGPVLFVWILVLVVVVVGSSAFLCHRRACRKRIQKLHLCYPVQTSQPKLELVDSRPRRSSTQLRSG
ASVTEPVAEERGLMSQPLMETCHSVGAAYLESPLQDASPAGGPSSPRDLPEPRVSTEHTNNKIEKIYIMKADTV
IVGTVKAELPEGRGLAGPAEPELEEELEADHTPHYEQETEPPLGSCSDVMLSVEEEGKEDPLPTAASGK

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FIGURE 1993

ATGGCACTGACTGCCCCACCCCTCCTGCCTCCTGGCCCTGTTGGTGGCAGGCCTAGCCCCAAGGCATCAGAGGCCCC
CTTAGGGCCCAGGACCTAGGTCCCCAGCCGCTAGAGCTGAAAGAGGCCTTCAAGTTGTTCCAGATCCAGTTCAAC
CGGAGTTACCTGAGCCCAGAAGAGCATGCTCACCGCTGGACATCTTTGCCCCAACCTGGCCCAGGCTCAGAGG
CTGCAGGAGGAGGACTTGGGCACAGCTGAGTTTGGGGTGACTCCATTCACTGACCTCACAGAGGAGGAGTTTGGC
CAGCTCTATGGCTATCGGAGGGCAGCTGGAGGGGTCCCCAGCATGGGCAGAGAAATAAGGTCTGAAGAGCCAGAG
GAGTCAGTACCTTTTCACTGTGACTGGCGGAAGGTGGCCGGCGCCATCTCACCCATCAAGGACCAGAAAACTGC
AACTGCTGCTGGGCCATGGCAGCGGCAGGCAACATAGAGACCCTGTGGCGCATCAGTTTCTGGGATTTTGTGGAC
GTCTCCGTGCATGAAGTGTGACTGTGGCCGCTGTGGGGATGGCTGCCACGGTGGCTTCGTCTGGGACGCGTTC
ATAACTGTCTCAACAACAGCGGCCCTGGCCAGTGAAAAGGACTACCCGTTCCAGGGCAAAGTCAGAGCCCACAGG
TGCCACCCCAAGAAGTACCAGAAGGTGGCCTGGATCCAGGACTTCATCATGCTGCAGAACACGAGCACAGAATT
GCGCAGTACCTGGCCACTTATGGCCCCATCACCGTGACCATCAACATGAAGCCCCTTCAGCTATACCGGAAAGGT
GTGATCAAGGCCACACCCACCACCTGTGACCCCCAGCTTGTGGACCACTCTGTCCTGCTGGTGGGTTTTTGGCAGC
GTCAAGTCAGAGGAGGGGATATGGGCAGAGACAGTCTCATCGCAGTCTCAGCCTCAGCCTCCACACCCACCCCA
TACTGGATCCTGAAGAACTCCTGGGGGGCCCAATGGGGAGAGAAGGGCTATTTCCGGCTGCACCGAGGGAGCAAT
ACCTGTGGCATCACCAAGTTCCCGCTCACTGCCCGTGTGCAGAAACCGGATATGAAGCCCCGAGTCTCCTGCCCT
CCCTGA

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FIGURE 1994

MALTAHPSCLLALLVAGLAQGIRGPLRAQDLGPQPLELKEAFKLFQIQFNRSYLSPEEHAHRLDIFAHNLAQAQR
LQEEDLGTAIEFGVTPFSDLTEEEFGQLYGYRRAAGGVPSMGREIRSEEPESVFPSCDWRKVAGAI SPIKDQKNC
NCCWAMAAAGNIETLWRISFWDFVDVSVHELLDCGRCDGCHGGFVWDAFITVLNNSGLASEKDYPFQGKVRHR
CHPKKYQKVAWIQDFIMLQNNHRIAQYLATYGPITVTINMKPLQLYRKGVIKATPTTCDPQLVDHSVLLVGFGS
VKSEEGIWAETVSSQSQPPHPTPYWILKNSWGAQWGEKGYFRLHRGSNTCGITKFPLTARVQKPDMPRVSCP
P

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FIGURE 1995

ACTCGTCTCTGGTAAAGTCTGAGCAGGACAGGGTGGCTGACTGGCAGATCCAGAGGTTCCCTTGGCAGTCCACGC
CAGGCCCTTCACCATGGATCAGTTCCTGAATCAGTGACAGAAAACCTTTGAGTACGATGATTTGGCTGAGGCCTGT
TATATTGGGGACATCGTGGTCTTTGGGACTGTGTTCTGTCCATATTCTACTCCGTCACTTTGCCATTGGCCTG
GTGGGAAATTTGTTGGTAGTGTGTTGCCCTCACCAACAGCAAGAAGCCCAAGAGTGTACCCGACATTTACCTCCTG
AACCTGGCCTTGCTGATCTGCTGTTTGTAGCCACTTTGCCCTTCTGGACTCACTATTTGATAAATGAAAAGGGC
CTCCACAATGCCATGTGCAAATTCACTACCGCCTTCTTCTCATCGGCTTTTTTGAAGCATATTCTTCATCACC
GTCATCAGCATTGATAGGTACCTGGCCATCGTCTGGCCGCCAACTCCATGAACAACCGGACCGTGCAGCATGGC
GTCACCATCAGCCTAGGCGTCTGGGCAGCAGCCATTTTGGTGGCAGCACCCAGTTCATGTTACAAAAGCAGAAA
GAAATGAATGCCTTGGTGACTACCCCGAGGTCTCCAGGAAATCTGGCCCGTGTCTCCGAATGTGGAAACAAAT
TTTCTTGGCTTCTACTCCCCCTGCTCATTATGAGTTATTGCTACTTCAGAATCATCCAGACGCTGTTTTCTCTGC
AAGAACCACAAGAAAGCCAAAGCCATTAACTGATCCTTCTGGTGGTCACTGTTGTTTTCTCTTCTGACACCC
TACAACGTTATGATTTTTCTGGAGACGCTTAAGCTCTATGACTTCTTTCCAGTTGTGACATGAGGAAGGATCTG
AGGCTGGCCCTCAGTGTGACTGAGACGGTTGCATTTAGCCATTGTTGCCTGAATCCTCTCATCTATGCATTTGCT
GGGAGAAGTTCAGAAGATACCTTTACCACCTGTATGGGAAATGCCTGGCTGTCTGTGTGGCGCTCAGTCCAC
GTTGATTTCTCTCATCTGAATCACAAGGAGCAGGCATGGAAGTGTCTGAGCAGCAATTTTACTTACCACACG
AGTGATGGAGATGCATTGCTCCTTCTCTGAAGGGAATCCCAAAGCCTTGTGTCTACAGAGAACCTGGAGTTCCTG
AACCTGATGCTGACTAGTGAGGAAAGATTTTTGTTGTTATTTCTTACAGGCACAAAATGATGGACCCAAATGCACA
CAAAACAACCTAGAGTGTGTTGAGAATTGTGCTCAAAATTTGAAGAATGAACAAATGAACTCTTTGAATGAC
AAAGAGTAGACATTTCTTACTGCAAATGTCATCAGAACTTTTTGGTTTGAGATGACAAAAATCAACTCAGA
CTAGTTTAGTTAAATGAGGGTGGTGAATATTGTTCAATTTGTGGCACAAGCAAAAGGGTGTCTGAGCCCTCAAAG
TGAGGGGAAACCAGGGCCTGAGCCAAGCTAGAATTCCTCTCTGACTCTCAAATCTTTTAGTCATTATAGATC
CCCCAGACTTTACATGACACAGCTTTATCACCAGAGAGGGACTGACACCCATGTTTCTGTGGCCCAAGGGAAAA
TTCCAGGGAAGTGCTCTGATAGGCCAAGTTGTATCAGGTGCCCATCCCTGGAAGGTGCTGTTATCCATGGGGA
AGGGATATATAAGATGGAAGCTTCCAGTCCAATCTCATGGAGAAGCAGAAATACATATTTCCAAGAAGTTGGATG
GGTGGGTACTATTCTGATTACACAAAACAAATGCCACACATCACCTTACCATGTGCTGATCCAGCCTCTCCCC
TGATTACACCAGCCTCGTCTTCATTAAGCCCTCTTCCATCATGTCCCAACCTGCAAGGGCTCCCCACTGCCTA
CTGCATCGAGTCAAACTCAAATGCTTGGCTTCTCATACGTCCACCATGGGGTCTACCAATAGATTCCCCATTG
CCTCCTCCTTCCCAAAGGACTCCACCCATCCTATCAGCCTGTCTCTTCCATATGACCTCATGCATCTCCACCTGC
TCCAGGCCAGTAAGGGAAATAGAAAAACCTGCCCCCAATAAGAAGGGATGGATTCCAACCCCAACTCCAGTA
GCTTGGGACAAATCAAGCTTCAGTTTCTGGTCTGTAGAAGAGGGATAAGGTACCTTTACATAGAGATCATCCT
TTCCAGCATGAGGAAGTAGCCACCAACTCTTGCAGGTCTCAACCCCTTTGTCTGCCTCTTAGACTTCTGCTTTCC
ACACCTGCACTGCTGTGCTGTGCCAAGTTGTGGTGTGACAAAGCTTGAAGAGCCTGCAGGTGCCTTGGCCGC
GTGCATAGCCCAGACACAGAAGAGGCTGGTTCTTACGATGGCACCCAGTGAGCACTCCCAAGTCTACAGAGTGAT
AGCCTTCCGTAAACCAACTCTCCTGGACTGCCTTGAATATCCCTCCAGTCACTTGTGCAAGCCCTGCCCCAT
CTGGGAAATACCCCATCATTGCTACTGCCAACCTGGGGAGCCAGGGCTATGGGAGCAGCTTTTTTTTTCCCC
CCTAGAAACGTTTGAACAATGTAAACTTTAAAGCTCGAAAACAATTGTAATAATGTAAAGAAAAAGTCATCC
AATCTAACACATCAATATTGTCAATTCCTGTATTACCCGTCAGACCTTGTTACACTCTCACATGTTTAGAGT
TGCAATCGTAATGTACAGATGGTTTTATAATCTGATTTGTTTTCTTAAAGTTAGACCACAAATAGTGCTCGC
TTTCTATGTAGTTTGGTAATTATCATTTTAGAAGACTCTACCAGACTGTGATTTCATTGAAGTCAGATGTGGTAA
CTGTTAAATTGCTGTGTATCTGATAGCTCTTTGGCAGTCTATATGTTTGTATAATGAATGAGAGAATAAGTCATG
TTCCTTCAAGATCATGTACCCCAATTTACTTGCCATTACTCAATTGATAAACATTTAACTTGTTTCCAATGTTTA
GCAAATACATATTTTATAGAATTC

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FIGURE 1996

MDQFPESVTENFEYDDLAEACYIGDIVVFGTVFLSIFYSVIFAIGLVGNLLVVFALTNSKKPKSVTDIYLLNLAL
SDLLFVATLPFWTHYLINEKGLHNAMCKFTTAAFFFIGFFGSIFFITVISIDRYLAIVLAANSMMNRTVQHGVTTIS
LGVWAAAILVAAPQFMFTKQKENECLGDYPEVLQEIWPVLRNVETNFLGFLPLLLIMSYCYFRIIQTLFSCKNHK
KAKAIKLILLVVIVFFLFWTPYNVMIFLETCLKLYDFFPSCDMRKDLRLALSVTETVAFSHCCLNPLIYAFAGEKF
RRYLYHLYGKCLAVLCGRSVHVDFFSSSESQSRHGSVLSSNFTYHTSDGDALLL

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FIGURE 1997

GCGGAAGGAACCGCCGGGGGCCATGGACGGAGCAGTGATGGAAGGGCCGCTTTTTTTCAGAGTCAGCGCTTGG
GACCAAGAGGTGGAGGAAGACCTGGGCCGTGCTCTACCCGGCCAGTCCCCACGGCGTAGCGGGCTCGAGTTCTT
TGACCATAAGGGGTGCGAGCTCTGGGGGTGGCCGAGGGAGCTCGCGCCGCTGGACTGCAAAGTGATCCGTCTGGC
TGAGTGTGTAGTGTGGCCCCCGTCACCGTGGAGACCCCCCTGAGCCCGGCGCCACTGCCCTCCGCCTGGACAC
TGCTCAGCGCTCGCACCTGCTGGCGGCCGACGCGCCGTCCAGTGCAGCCTGGGTGCAGACGCTGTGCCGAAACGC
CTTTCCGAAAGGCAGCTGGACTCTGGCGCCTACCGATAACCCACCTAAGCTTTCTGCCCTGGAGATGCTGGAGAA
CTCCTTGTACAGCCCTACCTGGGAAGGATCCCAATTCTGGGTAACGGTGCAGAGGACTGAGGCCGCCGAGCGCTG
TGGCTGCGATGGCTCCTACGTGCTGAGGGTGGAGGCTGAAAGGCTGACTCTCCTGACCGTGGGGGCCAGAGTCA
GATACTGGAGCCACTCCTGTCTGGCCCTACACTCTGTTGCGTCGCTATGGCCGGGACAAGGTCATGTTCTCTTT
CGAGGCCGCCGCCGCTGCCCTCAGGCCCTGGAACCTTACCTTCCAGACGGCACAGGGAAATGACATCTTCCA
GGCAGTTGAGACTGCCATCCACCGGCAGAAGGCCAGGGAAAGGCCGGACAGGGGCACGATGTTCTCAGAGCTGA
CTCCCATGAAGGGGAGGTGGCAGAGGGGAAGTTGCCTTCCCCACCTGGCCCCCAAGAGCTCCTCGACAGTCCCC
AGCCCTGTATGCTGAGCCCTTAGACTCCCTGCGCATTGCTCCATGCCCTTCCCAGGACTCCCTATACTCAGACCC
CTTGGACAGCACGTCTGCTCAGGCAGGAGAGGGAGTACAACGGAAGAAACCTCTCTATTGGGACTTGTATGAGCA
TGCGCAGCAGCAGTTGCTGAAGGCCAAGCTGACAGACCCCAAAGAGGATCCCATCTATGATGAACCTGAGGGCCT
GGCCCCAGTCCCTCCCCAGGGCCTTTATGATCTGCCTCGGGAGCCCAAGGATGCATGGTGGTGCCAAGCTCGGGT
GAAGGAGGAGGGCTATGAGCTCCCTACAACCCTGCCACTGATGACTACGCTGTGCCACCCCTCGGAGCACAAA
GCCCCCTCCTTGCTCCCAAGCCCCAGGGCCAGCCTTCCCTGAACCTGGTACTGCAACTGGCAGTGGCATCAAAAG
CCACAACCTCAGCCCTGTACAGCCAGGTCCAGAAGAGCGGGGCCCTCAGGGAGCTGGGACTGTGGGCTCTCTAGAGT
AGGGACTGACAAGACTGGGGTCAAGTCAGAGGGCTCTACCTGAGAAGGACGGCAAGGCTGAGGTGGCTAAGGGGG
ACCATGGGGAGGTGGCACTAGGGATCAAAGAAGATGGTTAGAACCAGCAGAAGCCAGAGGGTGGGAGGGGCCATG
CTGTGTGAGACCAGGGGACCAGAGGGATGGGAGAGTCAAGGGAAGGACAATCCCAGGAAGTCTTAAGAAGTGGGG
CAGATGGCAGGGCTGAGGATGGGCTCTGCATCCCCCAAAGCCATCCCTTCCCTACTTCCCCAAATGAAGGGACGG
CTGTGGGACCAGGTCTGTGAAAGTGGTGCATGGTGCAGATGGGTGCAGTTTGAGGGCCCTGTGTGAGGCCTCA
GGGAGATGTTGGACTGTGCCTGGATCCTTACTCCTGCATTGTTCTTTGCCAGAGACCTATTTAAAAATTTAAAA
TTCTCATTAAGTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1998

MDGAVMEGPIFLQSQRFGTKRWRKTWAVLYPASPHGVARLEFFDHKGSSSGGGRGSSRRLDCKVIRLAECVSVAP
VTVETPPEPGATAFRLDTAQRSHLLAADAPSSAAWVQTLCRNAFPKGSWTLAPTDNPPKLSALEMLENSLYSPTW
EGSQFWVTVQRTAAERCGLHGSYVLRVEAERLTLLTVGAQSQILEPLLSWPYTLLRRYGRDKVMFSFEAGRRC
SGPGTFTFQTAQGNDIFQAVETAHRQKAQKGAGQGHDLRADSHGEVAEGKLPSPPGPQELLDSPFALYAEPL
DSLRIAPCPSQDSLSDPLDSTSAQAGEGVQRKKPLYWDLYEHAQQQLLKAKLTDPKEDPIYDEPEGLAPVPPQG
LYDLPREPKDAWWCQARVKEEGYELPYNPATDDYAVPPPRSTKPLLAPKPQGPAPPEPGTATGSGIKSHNSALYS
QVQKSGASGSWDCGLSRVGTDKTKGVKSEGST

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FIGURE 1999

GCCGCTGCCACCGCACCCCGCCATGGAGCGGCCGTCGCTGCGCGCCCTGCTCCTCGGCGCCGCTGGGCTGCTGCT
CCTGCTCCTGCCCCCTCTCCTCTTCTCCTTCTCGGACACCTGCGGCCCTGCGAGCCGGCTCCTGCCCCGCCCT
GCCCCCGCTGGGCTGCCTGCTGGGCGAGACCCGCGACGCGTGCGGCTGCTGCCCTATGTGCGCCCGCGGCGAGGG
CGAGCCGTGCGGGGTGGCGGCGCCGGCAGGGGGTACTGCGCGCCGGGCATGGAGTGCGTGAAGAGCCGCAAGAG
GCGGAAGGGTAAAGCCGGGGCAGCAGCCGGCGGTCCGGGTGTAAGCGGCGTGTCGTGTGCAAGAGCCGCTACCC
GGTGTGCGGCAGCGACGGCACCACTACCCGAGCGGCTGCCAGCTGCGCGCCGCCAGCCAGAGGGCCGAGAGCCG
CGGGGAGAAGGCCATCACCCAGGTCAGCAAGGGCACCTGCGAGCAAGGTCCTTCCATAGTGACCCCCCAAGGA
CATCTGGAATGTCACTGGTGCCAGGTGTACTTGAGCTGTGAGGTCATCGGAATCCCGACACCTGTCCTCATCTG
GAACAAGGTAAAAAGGGTCACTATGGAGTTCAAAGGACAGAACTCCTGCCTGGTGACCGGGACAACCTGGCCAT
TCAGACCCGGGGTGGCCAGAAAAGCATGAAGTAACTGGCTGGGTGCTGGTATCTCCTCTAAGTAAGGAAGATGC
TGGAGAATATGAGTGCCATGCATCCAATCCCCAAGGACAGGCTTCAGCATCAGCAAAAATTACAGTGGTTGATGC
CTTACATGAAATACCAGTGAAAAAAGGTGAAGGTGCCGAGCTATAAAACCTCCAGAATATTATTAGTCTGCATGGT
TAAAAGTAGTCATGGATAACTACATTACCTGTTCTTGCCCTAATAAGTTTCTTTTAAATCCAATCCACTAACACTTT
AGTTATATTCAGTGGTTTTTACACAGAGAAATACAAAATAAAGATCACACATCAAGACTATCTACAAAATTTATT
ATATATTTACAGAAGAAAAGCATGCATATCATTAAACAAATAAAATACTTTTTATCACAAAAAAAAAAAAAAAAA

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FIGURE 2000

MERPSLRALLLGAAGLLLLLLPLSSSSSDTCGPCEPASCPLPPLGCLLGETRDACGCCPMCARGECEPCGGGG
AGRGYCAPGMECVKSRKRRKGKAGAAAGPGVSGVCVCKSRYPVCGSDGTTYPSCQLRAASQRAESRGEKAITQ
VSKGTCEQGPSIVTPPKDIWNVTGAQVYLSCEVIGIPTPVLINWVKGHYGVQTELLPGDRDNLAIQTRGGPE
KHEVTGWVLVSPLSKEDAGEYECHASNSQGQASASAKITVVDALHEIPVKKGEAEL

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FIGURE 2001

GAGACATTCTCAATTGCTTAGACATATTCTGAGCCTACAGCAGAGGAACCTCCAGTCTCAGCACCATGAATCAA
ACTGCGATTCTGATTTGCTGCCTTATCTTTCTGACTCTAAGTGGCATTCAAGGAGTACCTCTCTCTAGAACCGTA
CGCTGTACCTGCATCAGCATTAGTAATCAACCTGTTAATCCAAGGTCTTTAGAAAACTTGAAATTATTCCTGCA
AGCCAATTTTGTCCACGTGTTGAGATCATTGCTACAATGAAAAAGAAGGGTGAGAAGAGATGTCTGAATCCAGAA
TCGAAGGCCATCAAGAATTTACTGAAAGCAGTTAGCAAGGAAATGTCTAAAAGATCTCCTTTAAAACCAGAGGGGA
GCAAAATCGATGCAGTGCTTCCAAGGATGGACCACACAGAGGCTGCCTCTCCCATCACTTCCCTACATGGAGTAT
ATGTCAAGCCATAATTGTTCTTAGTTTGCAGTTACACTAAAAGGTGACCAATGATGGTCACCAAATCAGCTGCTA
CTACTCCTGTAGGAAGGTTAATGTTTCATCATCTAAGCTATTGAGTAATACTCTACCCTGGCACTATAATGTAA
GCTCTACTGAGGTGCTATGTTCTTAGTGGATGTTCTGACCCTGCTTCAAATATTTCCCTCACCTTTCCCATCTTC
CAAGGGTACTAAGGAATCTTTCTGCTTTGGGGTTTATCAGAATTCTCAGAATCTCAAATAACTAAAAGGTATGCA
ATCAAATCTGCTTTTTTAAAGAATGCTCTTTACTTCATGGACTTCCACTGCCATCTCCCAAGGGGCCCCAATTCT
TTCAGTGGCTACCTACATACAATTCCAAACACATACAGGAAGGTAGAAATATCTGAAAATGTATGTGTAAGTATT
CTTATTTAATGAAAGACTGTACAAAGTATAAGTCTTAGATGTATATATTTCTATATTGTTTTTCAGTGTACATGG
AATAACATGTAATTAAGTACTATGTATCAATGAGTAACAGGAAAATTTTAAAAATACAGATAGATATATGCTCTG
CATGTTACATAAGATAAATGTGCTGAATGGTTTTCAAATAAAAAATGAGGTACTCTCCTGGAAATATTAAGAAAGA
CTATCTAAATGTTGAAAGATCAAAAGGTTAATAAAGTAATTATAACT

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FIGURE 2002

MNQTAILICCLIFLTLSGIQGVPLSRTVRCTCISISNQPVNPRSLEKLEIIPASQFCPRVEIIATMKKKGEKRCL
NPESKAIGNLLKAVSKEMSKRSP

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FIGURE 2003

CGCGGACCCGCGCGGCCAGGCCGCGCGCGCGGCCCTGAGAGGCCCGGCAGGTCCCGGCCGCGCGCGGCGG
AGCCATGGCCGCGCGGCCGCGCGGCCGCGCGGCCGCGCGGCCGCGCGGCCGCGCGGCCGCGCGGCCGCGCGGCC
CTGGGTCAITGTCCGCTTCTACAAAGTGATGGACGCCCTGGAGCCCGCCGACTGGTGCCAGTTCCGCGCCCTGAT
CGTGCGCGACACAGACCGAGCTGCGGCTGTGCGAGCGCTCCGGGCAGCGCACGGCCAGCGTCTGTGGCCCTGGAT
CAACCGCAACGCGCGTGTGGCCGACCTCGTGACATCTCACGCACCTGCAGCTGCTCCGTGCGCGGGACATCAT
CACAGCCTGGCACCCCTCCCGCCCCGCTTCCGTCCCCAGGCACCACTGCCCCGAGGCCAGCAGCATCCCTGCACC
CGCCGAGGCCGAGGCTGGAGCCCCGGAAGTTGCCATCTCAGCCTCCACCTTCTCTCCCAAGCTTTTCCAGG
CTCCAGACCCATTAGGGCCTGAGCTCGGCCTGGTTCCAAGCCCTGCTTCCCTGTGGCCTCCACCGCCATCTCC
AGCCCCCTTCTTCTACCAAGCCAGGCCAGAGAGCTCAGTGTCCTCTGCAGGGAGCCCCGCCCTCTCCGTTTTG
CTGGCCCCCTCTGTGAGATTTCCCGGGGCACCCACAACCTTCTCGGAGGAGCTCAAGATCGGGGAGGGTGGCTTTGG
GTGCGTGTACCGGGCGGTGATGAGGAACACGGTGTATGCTGTGAAGAGGCTGAAGGAGAACGCTGACCTGGAGTG
GACTGCAGTGAAGCAGAGCTTCTGACCGAGGTGGAGCAGCTGTCCAGGTTTCGTACCCAAACATTGTGGACTT
TGCTGGCTACTGTGCTCAGAACGGCTTCTACTGCTGGTGTACGGCTTCTGCCCCAACGGCTCCCTGGAGGACCG
TCTCCACTGCCAGACCCAGGCCTGCCACCTCTCTCTGGCCTCAGCGACTGGACATCTTCTGGGTACAGCCCCG
GGCAATTCAAGTTTCTACATCAGGACAGCCCCAGCCTCATCCATGGAGACATCAAGAGTTCCAACGTCCTTCTGGA
TGAGAGGCTGACACCCAGCTGGGAGACTTTGGCCTGGCCCCGTTTCCAGCGCTTGGCCGGTCCAGCCCCAGCCA
GAGCAGCATGGTGGCCCCGACACAGACAGTGGGGGCACCTGGCCTACCTGCCCCGAGGAGTACATCAAGACGGG
AAGGCTGGCTGTGGACACGGACACCTTACGCTTTGGGGTGGTAGTGCTAGAGACCTTGGCTGGTCAAGGGCTGT
GAAGACGACCGGTGCCAGGACCAAGTATCTGAAAGACCTGGTGAAGAGGAGGCTGAGGAGGCTGGAGTGGCTTT
GAGAAGCACCCAGAGCAGCTGCAAGCAGGTCTGGCTGCAGATGCTGGGCTGCTCCCATCGCCATGCAGATCTA
CAAGAAGCACTGGACCCAGGCCCGGGCCCTGCCACCTGAGCTGGGCTGGGCTGGGCCAGCTGGCCTGCTG
CTGCCTGCACCGCCGGGCCAAAAGGAGGCTCCTATGACCCAGGTGTACGAGAGGCTAGAGAAGCTGCAGGCAGT
GGTGGCGGGGTGCCCCGGGCATTGGAGGCGGCCAGCTGCATCCCCCTTCCCCGCAGGAGAACTCTACGTGTC
CAGCACTGGCAGAGCCACAGTGGGGCTGCTCCATGGCAGCCCCCTGGCAGCGCCATCAGGAGCCAGTGGCCAGGC
AGCAGAGCAGTGCAGAGAGGCCCAACCAGCCCTGGAGAGTGACGAGAGCCTAGGCGGCCTCTCTGCTGCCCT
GCGCTCCTGGCACTTGACTCCAAGCTGCCCTCTGGACCCAGCACCCCTCAGGGAGGCCGCTGTCTCTAGGGGGA
CACGGCAGGAGAAATCGAGCTGGGGGAGTGGCCAGGATCCCGGCCACAGCCGTGGAAGGACTGGCCCTTGGCAG
CTCTGCATCATCGTCGTGAGAGCCACCGCAGATTATCATCAACCCTGCCCCGACAGAAGATGGTCCAGAAGCTGGC
CCTGTACGAGGATGGGGCCCTGGACAGCCTGCAGCTGCTGTCTGCTCCAGCTCCCTCCCAGGCTTGGGCCTGGAACA
GGACAGGCAGGGGCCCAAGAAAGTGATGAATTTAGAGCTGATGTGTTACCTGGGCAGATCCCCCAAATCCGG
AAGTCAAAGTTCTCATGGTCAGAAGTTCTCATGGTGACGAGTCTCTCAGCACTCTGCCGGCAGTGGGGGTGGGG
CCCATGCCCCGCGGGGAGAGAAGGAGGTGGCCCTGCTGTTCTAGGCTCTGTGGGCATAGGCAGGCAGAGTGGAAC
CCTGCTCCATGCCAGCATCTGGGGGCAAGGAAGGCTGGCATCATCAGTGAGGAGGCTGGCGCATGTTGGGAGG
CTGCTGGCTGCACAGACCCGTGAGGGGAGGAGAGGGGCTGCTGTGAGGGGTGTGGAGTAGGGAGCTGGCTCCCC
TGAGAGCCATGCAGGCGTCTGCAGCCAGGCCTCTGGCAGCAGCTCTTTGCCCATCTCTTTGGACAGTGGCCAC
CCTGCACAATGGGGCCGACGAGGCTTAGGGCCCTCTACCTGCTTACAATTTGGAAAAGTGTGGCCGGGTGCGGT
GGCTCACGCTGTAAATCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCGCTGGAGCCAGTAGGTCAAGACCAG
CCAGGGCAACATGATGAGACCCTGTCTCTGCCAAAAATTTTTTAACTATTAGCCTGGCGTGGTAGCGCACGCC
TGTGGTCCCAGCTGCTGGGGAGGCTGAAGTAGGAGGATCATTTATGCTTGGGAGGTCGAGGCTGCAGTGAGTCAT
GATTGTATGACTGCACTCCAGCCTGGGTGACAGAGCAAGACCCCTGTTTCAAAAAGAAAAACCCCTGGGAAAAGTGA
AGTATGGCTGTAAGTCTCATGGTTTCACTCCTAGCAAGAAGCGAGAATTCTGAGATCCTCCAGAAAAGTCGAGCAGC
ACCCACCTCCAACCTCGGGCCAGTGTCTTACGGCTTTACTGGGGACCTGCGAGCTGGCCTAATGTGGTGGCCTGC
AAGCCAGGCCATCCCTGGGCGCCACAGACGAGCTCCGAGCCAGGTGAGGCTTCGGAGGCCACAAGCTCAGCCTCA
GGCCAGGCACTGATTGTGGCAGAGGGGCCACTACCCAAGGTCTAGCTAGGCCCAAGACCTAGTTACCCAGACAG
TGAGAAGCCCTGGAAGGCAGAAAAGTTGGGAGCATGGCAGACAGGGAAGGGAACATTTTACGGGAAAAGACAT
GTATCACATGCTTTCAGAAGCAAGTCAGGTTTTCATGTAACCGAGTGCTCTTGGCTGTCCAAAAGTAGCCAGG
GCTGTAGCACAGGCTTTCAGTGATTTTGTGTTTCCAGCGTGAGTCACACTACATGCCCCCGTGAAGCTGGGCATT
GGTGACGTCCAGGTTGTCTTGAGTAATAAAAAACGTATGTTCCCTAAAAA

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FIGURE 2004

MAGGPGGEPAPGAQHFLYEVPWVMCRFYKVMDALEPADWCQFAALIVRDQTELRLCERSGQRTASVLWPWIN
RNARVADLVHILTHLQLLRARDIITAWHPPAPLPSPGTTAPRPSSIPAPAEAEAWSPRKLPSASTFLSPAFFGS
QTHSGPELGLVPSASLWPPPPSPAPSSTKGPRESSVSLQGARPSRFCWPLCEISRGTHNFSEELKIGEGGFGC
VYRAVMRNTVYAVKRLKENADLEWTAVKQSFLTEVEQLSRFRHPNIVDFAGYCAQNGFYCLVYGFLPNGSLEDRL
HCQTQACPPLSWPQRLDILLGTARAIQFLHQDSPSLIHGDIKSSNVLLDERLTPKLGDFGLARFSRFAGSSPSQS
SMVARTQTVRGTLAYLPEEYIKTGRLAVD TD TFSFGVVVLETLAQRAVKTHGARTKYLKDLVEEEAEEAGVALR
STQSTLQAGLAADAWAAPIAMQIYKKHLDPRPGPCPPELGLGLGQLACCCLHRRARRPPMTQVYERLEKLQAVV
AGVPGHLEAASCIPPSQENSYVSSTGRAHSGAAPWQPLAAPSGASQAEEQLQGPNGPVEDES LGGLSALR
SWHLTPSCPLDPAPLREAGCPQGD TAGESSWGSGPSRPTAVEGLALGSSASSSSEPPQIIINPARQKMOVKLAL
YEDGALDSLQLLSSSSLPGLGLEQDRQGPEESDEFQS

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FIGURE 2005A

ATTACGCCGGTGC GCGCGGGCGGGAGGCAGTGGCTGGGGAGTCCCGTCGACGCTCTGTTCCGAGAGCGTGCCC
CGGACCGCCAGCTCAGAACAGGGGCAGCCGTGTAGCCGAACGGAAGCTGGGAGCAGCCGGGACTGGTGGCCCGCG
CCCGAGCTCCGCGAGCGGGAAGCACCCCTGGATTGGGAAGTCCCGGGAGCAGCGCGGGCGCACCTCCCTACCCCA
AGGGGCCGCGGCGACGGTACGCGGGCGGGCGCCACCGTGAGCGACCCAGGCCAGGATTCTAAATAGACGGCCCA
GGCTCCTCCTCCGCCCCGGGCCCTCACCTGCGGGCATTGCCGCGCCGCTCCGCCGGTGTAGACGGCACCTGCG
CCGCTTGCTCGCGGGTCTCCGCCCTCGCCACCCTCACTGCGCCAGGCCAGGCAGCTCACTGTACTGGCGC
GGGTGCGGAAGCCTGCGTGAGCCGAGGCGTTGAGGCGCGGGCGCCACGCCACTGTCCCGAGAGGACGCAGGTGG
AGCGGGCGCGGCTTCGCGGAACCCGGCGCCGCGCGCAGTGGTCCCAGCCTACACCGGTTCCGGGGACCCGG
CCGCCAGTGCCCGGGAGTAGCCGCCGCCGCTCGGCTGGGCACCATGAACAGCAGCAGCGCCAACATCACCTACGC
CAGTCGAAGCGGCGGAAGCCGGTGCAGAAAACAGTAAAGCCAATCCCAGCTGAAGGAATCAAGTCAAATCCTTC
CAAGCGGCATAGAGACCGACTTAATACAGAGTTGACCGTTTGGCTAGCCTGCTGCCCTTTCCACAAGATGTTAT
TAATAAGTTGGACAACTTTTCAGTTCTTAGGCTCAGCGTCAGTTACCTGAGAGCCAAGAGCTTCTTTGATGTTGC
ATTAATAATCCTCCCTACTGAAAGAAACGGAGGCCAGGATAACTGTAGAGCAGCAAATTTTCAGAGAAGGCCTGAA
CTTACAAGAAGGAGAATTCTTATTACAGGCTCTGAATGGCTTTGTATTAGTTGTCACCTACAGATGCTTTGGTCTT
TTATGCTTCTTCTACTATACAAGATTATCTAGGGTTTCAGCAGTCTGATGTCATACATCAGAGTGTATATGAAT
TATCCATACCGAAGACCGAGCTGAATTTTCAGCGTCAGCTACACTGGGCATTAAATCCTTCTCAGTGTACAGAGTC
TGGACAAGGAATTGAAGAAGCCACTGGTCTCCCCCAGACAGTAGTCTGTTATAACCCAGACCAGATTCCCTCCAGA
AAACTCTCCTTTAATGGAGAGGTGCTTCATATGTCGTCTAAGGTGCTGCTGGATAATTCATCTGGTTTTCTGGC
AATGAATTTCCAAGGGAAGTTAAAGTATCTTCATGGACAGAAAAAGAAAGGAAAGATGGATCAATACTTCCACC
TCAGTTGGCTTTGTTTGCATAGCTACTCCACTTCAGCCACCATCCATACTTGAAATCCGGACCAAAATTTTAT
CTTTAGAACCAAAACAACTAGACTTCACACCTATTGGTTGTGATGCCAAAGGAAGAATTGTTTTAGGATATAC
TGAAGCAGAGCTGTGCACGAGAGGCTCAGGTTATCAGTTTATTCATGCAGCTGATATGCTTTATTGTGCCGAGTC
CCATATCCGAATGATTAAGACTGGAGAAAGTGGCATGATAGTTTTCCGGCTTCTTACAAAAACAACCGATGGAC
TTGGGTCCAGTCTAATGCACGCTGCTTTATAAAATGGAAGACCAGATTATATCATGTAACTCAGAGACCACT
AACAGATGAGGAAGGAACAGAGCATTACGAAAACGAAATACGAAGTTGCCTTTTATGTTTACCCTGGAGAAGC
TGTGTTGTATGAGGCAACCAACCCCTTTCTGCCATAATGGATCCCTTACCCTAAGGACTAAAAATGGCACTAG
TGGAAAAGACTCTGCTACCACATCCACTCTAAGCAAGGACTCTCTCAATCCTAGTTCCCTCCTGGCTGCCATGAT
GCAACAAGATGAGTCTATTTATCTCTATCTGCTTCAAGTACTTCAAGTACTGCACCTTTTGAAAACAACCTTTTT
CAACGAATCTATGAATGAATGCAGAAATTGGCAAGATAATACTGCACCGATGGGAAATGATACTATCTGAAACA
TGAGCAAATTGACGACCTCAGGATGTGAACCTATTTGCTGGAGGTACCCAGGGCTCTTTCAAGATAGTAAAAA
CAGTGACTTGTACAGCATAATGAAAAACCTAGGCATTGATTTTGAAGACATCAGACACATGCAGAAATGAAAAAT
TTTCAGAAATGATTTTTCTGGTGAGTTGACTTCAGAGACATTGACITTAACGGATGAAATCCTGACGTATGTCCA
AGATTCTTTAAGTAAGTCTCCCTTCATACCTTCAGATTATCAACAGCAACAGTCCCTGGCTCTGAACTCAAGCTG
TATGGTACAGGAACACCTACATCTAGAACAGCAACAGCAACATCACCAAAAGCAAGTAGTAGTGGAGCCACAGCA
ACAGCTGTGTCAGAAGATGAAGCACATGCAAGTTAATGGCATGTTTGAAAATTGGAACCTTAACCAATTCGTGCC
TTTCAATTGTCCACAGCAAGACCCACAACAATATAATGTCTTTACAGACTTACATGGGATCAGTCAAGAGTTCCC
CTACAAATCTGAAATGGATTCTATGCCITTATACAGAACTTTATTTCTGTAATCAGCCTGTATTACCACAACA
TTCCAAATGTACAGAGCTGGACTACCTATGGGGAGTTTTGAACCATCCCCATACCCCACTACTTCTAGTTTGA
AGATTTTGTCACTTGTTTACAACCTCCGAAAACCAAAAGCATGGATTAAATCCACAGTCAGCCATAATACTCC
TCAGACATGTTATGCTGGGGCCGTGTCGATGTATCAGTGCCAGCCAGAACCTCAGCACACCCACGTGGGTGAGAT
GCAGTACAATCCAGTACTGCCAGGCCAACAGGCATTTTTAAACAAGTTTCAGAAATGGAGTTTTAAATGAAACATA
TCCAGCTGAATTAATAACATAAATAACACTCAGACTACCACACATCTTCAGCCACTTCATCATCCGTCAGAAGC
CAGACCTTTTCTGATTTGACATCCAGTGGATTCCGTAAATTCGAAGCCCAATTTTGACCCTGGTTTTTGGATTA
AATTAGTTTTGTGAAGGATTATGGAAAAATAAACTGTCAGTGTGGACGTCAGCAAGTTCACATGGAGGCATTGA
TGCATGCTATTACAAATTATCCAAACCAATTTTAATTTTTGCTTTTAGAAAAGGGAGTTTTAAATGGTATCA
AAATTACATATACTACAGTCAAGATAGAAAGGTGCTGCCACGGAGTGGTGAGGTACCGTCTACATTTACATTA
TTCTGGGCACCACAAAATATACAAAACCTTTATCAGGGAACTAAGATTCTTTTAAATAGAAAATATTCTCTATT
TGAATTATTTCTGTCACAGTAAAAATAAAATACTTTGAGTTTTGAGCTACTGGATTCTTATTAGTTCCCCAAATA

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FIGURE 2005B

CAAAGTTAGAGAACTAAACTAGTTTTTTCCTATCATGTTAACCTCTGCCTTTATCTCAGATGTTAAAATAAATGGT
TTGGTGCTTTTTATAAAAAAGATAATCTCAGTGCTTTCCTCCTTCACTGTTTCATCTAAGTGCCTCACATTTTTTT
CTACCTATAACACTCTAGGATGTATATTTTATATAAAGTATTCTTTTTCTTTTTTAAATTAATATCTTCTGCAC
ACAAATATTATTTGTGTTTCCTAAATCCAACCAATTTTCATTAATTCAGGCATATTTAACTCCACTGCTTACCT
ACTTCTTCAGGTAAGGGCAAATAATGATCGAAAAATAATTATTTATTACATAATTTAGTTGTTTCTAGACT
ATAAATGTTGCTATGTGCCTTATGTTGAAAAATTTAAAAGTAAATGTCTTCCAAATTATTTCTTAATTATTA
TAAAAATATTAAGACAATAGCACTTAAATTCCTCAACAGTGTTTTCAGAAGAAATAAATATACCACTCTTTACCT
TTATTGATATCTCCATGATGATAGTTGAATGTTGCAATGTGAAAAATCTGCTGTTAACTGCAACCTTGTTTATTA
AATTGCAAGAAGCTTTATTTCTAGCTTTTTTAATTAAGCAAAGCACCATTTCAATGTGTATAAATGTCTTTAAA
AACTGTTTTAGACCTATAATCCTTGATAATATATTGTGTGACTTTATAAATTCGCTTCTTAGAACAGTGGA
CTATGTGTTTTTCTCATATTTGAGGAGTGTTAAGATTGCAGATAGCAAGGTTTGGTGCAAAGTATTGTAATGAGT
GAATTGAATGGTGCAATTGTATAGATATAATGAACAAAATTATTTGTAAGATATTTGCAGTTTTTCATTTTAAAA
GTCCATACCTTATATATGCACTTAATTTGTTGGGGCTTTACATACTTTATCAATGTGTCTTTCTAAGAAATCAAG
TAATGAATCCAACCTGCTTAAAGTTGGTATTAATAAAAAAGACAACCACATAGTTCGTTTACCTTCAAACCTTAGGT
TTTTTTAATGATATACTGATCTTCATTACCAATAGGCAAATTAATCACCTTACCAACTTTACTGTCTTAACATGG
ACTTTCAAAAAGAAAAAATGACACCATCTTTTATTCTTTTTTTTTTTTTTTTTTTTGGAGAGAGAGTCTTACTCTGC
CGCCCAAACCTGGAGTGCACTGGCACAATCTTGGCTCACTGCAACCTCTACCTCCTGGGTTCAGTGATTCTCTTG
CCTCAGCCTCCCGAGTTGCTGGGATTGCGGGCATGGTGGCGTGAGCCTGTAGTCTAGCTACTCGGGAGGCTGAG
GCAGGAGAATAGCCTGAACCTGGGAATCGGAGGTTGCAGGGCCAAGATCGCCCACTGCACTCCAGCCTGGCAAT
AGACCGAGCTCCGTCTCCAAAAAATAACAATTTTATTTCTTTTACTTTTTTTTAGTAAGTTAATGTATATA
AAAAATGGCTTCGGACAAATAICTCTGAGTTCTGTGATTTTCAGTCAAACTTTAAACCTGTAGAATCAATTTA
AGTGTTGAAAAAATTTGTCTGAAACATTTTATAATTTGTTTCCAGCATGAGGTATCTAAGGATTTAGACCAGAG
GTCTAGATTAATACTCTATTTTTTACATTTAAACCTTTTATTATAAGTCTTACATAAACCATTTTTGTACTCTCT
TCCACATGTTACTGGATAAATGTTTAGTGGAATAAGGCTTTTTAATCATGAATATGATGACAATCAGTTATAC
AGTTATAAAATTTAAAGTTTGAAAGCAATATTGTATATTTTATCTATATAAAATAACTAAAATGTATCTAAGA
ATAATAAAATCACGTAAACC

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FIGURE 2006

MNSSSANITYASRKRKPQKTVKPIPAEGIKSNPSKRHRDRNLNTELDRLASLLPFPQDVINKLSDKLSVLRLSVS
YLRKSSFFDVALKSSPTERNGGQDNCRAANFREGNLQEGEFLLQALNGFVLVTTDALVFYASSTIQDYLGFGQ
SDVIHQSVYELIHTEDRAEFQQLHWALNPSQCTESGQIEEATGLPQTVVCYNPDQIPPENSPLMERCFCRLR
CLLDNSSGFLAMNFQGKLKYLHGQKKKGKDGSI LPPQALFAIATPLQPPSILEIRTKNFIFRTKHKLDFTPIGC
DAKGRIVLGYTEAELCTRGSYQFIHAADMLYCAESHIRMIKTGESGMIVFRLLTKNNRWTWVQSNARLLYKNGR
PDYIIVTQRPLTDEEGTEHLRKRNTKLPFMFTTGEAVLYEATNPFPAIMDPLPLRTKNGTSGKDSATTSTLSKDS
LNPSSLLAAMMQDESIYLYPASSTSSSTAPFENNFFNESMNECRNWQDNTAPMGNDTILKHEQIDQPQDVNSFAG
GHPGLFQDSKNSDLYSIMKNLGIDFEDIRHMQNEKFFRNDFS GEVDFRDIDLTDEILTYVQDSLKSPFIPSDYQ
QQQSLALNSSCMVQEHLHLEQQQHHQKQVVVEPQQQLCQKMKHMQVNGMFENWNSNQFVFNCPQQDPQQYNVF
TDLHGISQEFYPYKSEMD SMPYTQNFISCNQPVLPQH SKCTELDYPMGSFEPSPYPTTSSLEDFVTCLQLPENQKH
GLNPQSAIITPQTCYAGAVSMYQCQPEPQH THVGQM QYNPVLPGQAFLNKFQNGVLNETYPAELNNINNTQTTT
HLQPLHHPSEARFPFDLTSSGFL

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FIGURE 2007

AAAGAACCGCACACCACAGACTCCCTCCAGCTCTTTGTGTGTGGCTCTCTCAGGGTCCAACAAGAGCAAGCTGTG
GGTCTGTGAGTGTATATGTGTGCTTTTATTCACTTCACACTTATTGAAAAGTGTGTATGTGAGAGGGTGGGGTGT
GTGTGTCAAAGAGAGTGAGGAAGAGAAGGAGAGAGAGATCAATTGATTCTGCAGCCTCAGCTCCAGCATCCCTCA
GTTGGGAGCTTCCAAAGCCGGGTGATCACTTGGGGTGCATAGCTCGGAGATGCAGTCCCCCTGGAAAATCCTTAC
GGTGGCGCCTCTATTCTTGTCTCTTTCAGTCTCGGCCTCTCCAGCCAACGATGACCAGTCCAGGCCCAG
CCTCTCGAATGGGCACACCTGTGTAGGGTGTGTGCTGGTGGTGTCTGTAATAGAACAGCTTGCTCAAGTTCACAA
CTCGACGGTCCAGGCTCGATGGAGAGACTGTGCAGCTACCTGCCTGAAAACTGTTCTTGAACCACCTGCTA
TTTAGTCATTGACAAGTTTGGATCAGACATCATAAACTGCTTAGCGCAGATATGAATGCTGATGTGGTATGTCA
CACTCTGGAGTTTTGTAAACAGAACACTGGCCAACCATTGTGTCTCTTACCCTCTTCCCAAGGAGACATGGAA
ATTTACACTACAGAAGGCAAGACAAATTGTCAAGAAGTCCCCGATTCTGAAATATTCTAGAAGTGGTTCTGACAT
TTGTTCACTCCCGTTTTGGCCAAGATCTGCCAGAAAATTAAATTAGCTATGGAACAGTCTGTGCCATTCAAAGA
TGTGGATTACAGACAAATACAGCGTTTTTCCCAACTGCGGGGCTATCACTGGCGGGGAGAGACTGTAATGACAG
CGACGAGTCAGTGTACCCAGGTAGAAGGCCGAACAACCTGGGATGTCCATCAGGATTCAAAGTGAATGGCATTG
GGGTGTCTGATCCAAAAGATGGAGTTCCATATGAGAAGAAATTCTGTGAAGGTTACAGCCCAGGGGAATCATTTT
GCTGGGAGACTCAGCTGGGGCTCATTTTCACATCTCTCTGAATGGATCACAGCGTCGCAGATGTCTTTGAACCT
TTTCATCAATCTACCAACAGCCCTTACCAACGAGCTTGACTGGCCCCAACTCTCTGGTGCTACAGGATTTCTGGA
CTCCACTGTTGGAATTAAGAAAAATCTATTTACCTTCGCTTATGGAAAAGAAACCACTGTAATCACAGGGACTA
CCAGAATATTTCAAGAAATGGTGCATCTTCCCGAAACCTGAAGAAATTTATAGAAAGCTTGTCTAGAAACAAGGT
GTTGGACTATCCCGCCATCGTTATATATGCCATGATTGGAATGATGTCTGCAGTGGGAAGAGTGACCCAGTCCC
AGCCATGACCACTCCTGAGAACTCTACTCCAACGTCATGCAGACTCTGAAGCATCTAAATTTCCACCTGCCCAA
TGGCAGCCATGTTATTTGTATGGCTTACCAGATGGAACCTTTCTCTGGGATAATTTGCACAACAGATATCATCC
TCTCGGCCAGCTAAATAAGACATGACCTATGCGCAGTTGTACTCCTTCTGAACGCTCCAGGTACAGCCCCTG
CCACGGCTGGATGTCTTCCAACAAGACGTTGCGGACTCTCACTTCAGAGAGAGCAGAGCAACTCTCCAACACACT
GAAAAAAATTGCAGCCAGTGAGAAATTTACAACTTCAATCTTTTCTACATGGATTTTGCTTCCATGAAATCAT
ACAGGAGTGGCAGAAGAGAGGCGGACAGCCCTGGCAGCTCATCGAGCCCGTGGATGGATTCCACCCCAACGAGGT
GGCTTTGCTGTTGTTGGCGGATCATTCTGAAAAAGGTGCAGCTCCAGTGGCCCCAAATCCTGGGAAAGGAGAA
TCCGTTCAACCCCGAGATTAACAGGTGTTTGGAGACCAAGGCGGGCACTGAGCCTCTCAGGAGCATGCACCCCT
GGGGAGCACAGGGAGGCAGAGGCTTGGGTAAACTCATCCACAAACCCATATGGGGGCTGCCACGTACAGGCCCCA
AAGGACTCTTCTTCAGCAGCATCTTTGCAAAATGTCTTCTCTCAATGAAGAGCATATCTGGACGACTGTGCAAT
GCTGTGTGCTCCCGGGATCAGTAACCTTCCGCTGTTCTGAAATAACCTTTCATAAAGTGCTTTGGGTGCCAT
TCCA

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FIGURE 2008

MQSPWKILTVAFLFLLLSLQSSASPANDDQSRPSSLNGHTCVGCVLVVSVEQLAQVHNSTVQASMERLCSYLPE
KLFLKTTCYLVIDKFGSDI IKLLSADMNADVCHTLEFCKQNTGQPLCHLYPLPKETWKFTLQKARQIVKKSPIL
KYSRSGSDICSLPV LAKICQKIKLAMEQSVPFKD VSDKYSVFPTLRGYHWRGRDCNDSDESVPGRRPNNWDVH
QDSNCNGIWGVDPKDGVPYEKKFCEGSQPRGIILLGDSAGAHFHISPEWITASQMSLNSFINLPTALTNELDWPQ
LSGATGF LDSTVGIKEKSIYLR LWKRNHCHNRDYQNISRNGASSRNLKKFIESLSRNKVLDYPAIVIIYAMIGNDV
CSGKSDPVPAMTTPEKLYSNVMQTLKHLNSHLPNGSHVILYGLPDGTF LWDNLHNRYHPLGQLNKDMTYAQLYSF
LNCLQVSPCHGWMSSNKT LRTLTSERAEQLSNTLKKIAASEKFTNFNLFYMDFAFHEIIQEWQKRGGPWQLIEP
VDGFHPNEVALLLLADHFWKKVQLQWPQILGKENPFNPQIKQVFGDQGGH

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FIGURE 2009

CCTAAGATGAGCTTTCCATGTAAATTTGTAGCCAGCTTCCTTCTGATTTTCAATGTTTCTTCCAAAGGTGCAGTC
TCCAAAGAGATTACGAATGCCTTGGAAACCTGGGGTGCCTTGGGTGAGGACATCAACTTGGACATTCCTAGTTTT
CAAATGAGTGATGATATTGACGATATAAAATGGGAAAAAAGTTTCAAGACAAGAAAAAGATTGCACAATTCAGAAAA
GAGAAAGAGACTTTCAAGGAAAAAGATACATATAAGCTATTTAAAAATGGAACCTCTGAAAATTAAGCATCTGAAG
ACCGATGATCAGGATATCTACAAGGTATCAATATATGATACAAAAGGAAAAATGTGTTGGAAAAATATTTGAT
TTGAAGATTCAAGAGAGGGTCTCAAAACCAAGATCTCCTGGACTTGTATCAACACAACCTGACCTGTGAGGTA
ATGAATGGAACCTGACCCGAATTAACCTGTATCAAGATGGGAAACATCTAAAACCTTCTCAGAGGGTCATCACA
CACAAGTGGACCACCAGCCTGAGTGCAAAATTCAAGTGCACAGCAGGGAACAAAGTCAGCAAGGAATCCAGTGT
GAGCCTGTGAGCTGTCCAGAGAAAGGTCTGGACATCTATCTCATCATTGGCATATGTGGAGGAGGCAGCCTCTTG
ATGGTCTTTGTGGCCTGCTCGTTTTCTATATCACCAAAAGGAAAAACAGAGGAGTCGGAGAAATGATGAGGAG
CTGGAGACAAGAGCCACAGAGTAGCTACTGAAGAAAGGGGCCGAAGCCCCAACAAATTCAGCTTCAACCCCT
CAGAAATCCAGCAACTTCCCAACATCCTCCTCCACCACCTGGTCATCGTTCCCAGGCACCTAGTCATCGTCCCCG
CCTCCTGGACACCGTGTTCAGCACCAGCCTCAGAAGAGGCCTCCTGCTCCGTCCGGGCACACAAGTTCACCAGCAG
AAAGGCCCGCCCTCCCCAGACCTCGAGTTCAGCCAAAACCTCCCCATGGGGCAGCAGAAAACCTATTGTCCCT
TCCTCTAATTAAAAAGATAGAACTGTCTTTTCAATAAAAAGCACTGTGGATTCTGCCCTCCTGATGTGCAT
ATCCGTACTTCCATGAGGTGTTTTCTGTGTGCAGAACATTGTACCTCCTGAGGCTGTGGGCCACAGCCACCTCT
GCATCTTCGAACTCAGCCATGTGGTCAACATCTGGAGTTTTTGGTCTCCTCAGAGAGCTCCATCACACCAGTAAG
GAGAAGCAATATAAGTGTGATTGCAAGAATGGTAGAGGACCGAGCACAGAAATCTTAGAGATTTCTTGTCCCTC
TCAGGTCTGTGTAGATGCGATAAATCAAGTGATTGGTGTGCCTGGGTCTCACTACAAGCAGCCTATCTGCTTAA
GAGACTCTGGAGTTTCTTATGTGCCCTGGTGGACACTTGCCACCATCCTGTGAGTAAAGTGAAATAAAGCTT
TGAC

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FIGURE 2010

MSFPCKFVASFLLIFNVSSKGAVSKEITNALETWGALGQDINLDIPSFQMSDDIDDIKWEKTSKKKIAQFRKEK
ETFKEKDTYKLFKNGTLKIKHLKTDDQDIYKVSIIYDTKGKNVLEKIFDLKIQERVSKPKISWTCINTTLTCEVMN
GTDPELNLYQDGKHLKLSQRVITHKWTTLSAKFKCTAGNKVSKESSVEPVSCPEKGLDIYLIIGICGGGSLMV
FVALLVFIITKRKKQRRRNDEELETRAHRVATEERGRKPOQIPASTPQNPATSQHPPPPPGHRSQAPSHRPPPP
GHRVQHQPQKRPPAPSGTQVHQKGPPLPRPRVQPKPPHGAENSLSPSSN

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FIGURE 2011

CCATCCCATAGTGAGGGAAGACACGCGGAAACAGGCTTGCACCCAGACACGACACCATGCATCTCCTCGGCCCT.
GGCTCCTGCTCCTGGTTCTAGAATACCTGGCTTTCTCTGACTCAAGTAAATGGGTTTTTGAGCACCTGAAACCC
TCTACGCCTGGGAGGGGGCCTGCGTCTGGATCCCTGCACCTACAGAGCCCTAGATGGTGACCTGGAAAGCTTCA
TCCTGTTCCACAATCCTGAGTATAACAAGAACACCTCGAAGTTTGATGGGACAAGACTCTATGAAAGCACAAGG
ATGGGAAGGTTCTTCTGAGCAGAAAAGGGTGCAATTCCTGGGAGACAAGAATAAGAACTGCACACTGAGTATCC
ACCCGGTGACCTCAATGACAGTGGTCAGCTGGGCTGAGGATGGAGTCCAAGACTGAGAAATGGATGGAACGAA
TACACCTCAATGTCTCTGAAAGGCCTTTTCCACCTCATATCCAGCTCCCTCCAGAAATTCAAGAGTCCCAGGAAG
TCACTCTGACCTGCTTGCTGAATTTCTCCTGCTATGGGTATCCGATCCAATTGCAGTGGCTCCTAGAGGGGGTTC
CAATGAGGCAGGCTGCTGTACCTCGACCTCCTTGACCATCAAGTCTGTCTTACCCGGAGCGAGCTCAAGTTCT
CCCCACAGTGGAGTCAACATGGGAAGATTGTGACCTGCCAGCTTCAGGATGCAGATGGGAAGTTCTCTCCAATG
ACACGGTGACGTGAACGTGAAGCACACCCCGAAGTTGGAGATCAAGGTCACCTCCAGTATGCCATAGTGAGGG
AGGGGGACTCTGTGACCATGACCTGCGAGGTGAGCAGCAGCAACCCGGAGTACACGACGGTATCCTGGCTCAAGG
ATGGGACCTCGCTGAAGAAGCAGAATACATTACGCTAAACCTGCGCGAAGTGACCAAGGACCAGAGTGGGAAGT
ACTGTGTGACGTTCTCCAATGACGTGGGCCCCGGAAGTGCAGGAAGAAGTGTTCCTGCAAGTGCAGTATGCCCCG
AACCTTCCACGGTTGAGATCCTCCACTCACCGGCTGTGGAGGGAAGTCAAGTGCAGTTTCTTGCATGTCACTGG
CCAATCCTCTTCCAACAAATTACACGTGGTACCACAATGGGAAAGAAATGCAGGGAAGGACAGAGGAGAAAGTCC
ACATCCCAAAGATCCTCCCTGGCACGCTGGGACTTATTCTGTGTGGCAGAAAACATTCTTGGTACTGGACAGA
GGGGCCCCGGGAGCTGAGCTGGATGTCCAGTATCCTCCCAAGAAGGTGACCACAGTGAATCAAACCCCATGCCGA
TTCGAGAAGGAGACACAGTGACCTTTCTGTAACTACAATTCCAGTAACCCAGTGTACCCGGTATGAATGGA
AACCCCATGGCGCCTGGGAGGAGCCATCGCTTGGGGTGTGAAGATCCAAACGTTGGCTGGGACAACACAACCA
TCGCCTGCGCACGTTGTAATAGTTGGTGTCTGCTGGGCTCCCTGTGCGCCTGAATGTCCAGTATGCCCCCGAG
ACGTGAGGGTCCGGAATCAAGCCCCCTTCCGAGATTCACTCTGGAACTCGGTGAGCCTCCAATGTGACTTCT
CAAGCAGCCACCCCAAAGAGTCCAGTTCTTCTGGGAGAAAATGGCAGGCTTCTGGGGAAGAAAGCCAGCTGA
ATTTTGACTCCATCTCCCCAGAAGATGCTGGGAGTTACAGCTGTGGGTGAACAACTCCATAGGACAGACAGCGT
CCAAGGCCTGGACACTTGAAGTGTGTATGCACCCAGGAGGTGCGTGTGTCCATGAGCCCCGGGGACCAAGTGA
TGGAGGGGAAGAGTGAACCCCTGACCTGTGAGAGTGACGCCAACCCCTCCCGTCTCCCACTACACCTGGTTTACT
GGAATAACCAAAGCCTCCCCCACCACAGCCAGAAGCTGAGATTGGAGCCGGTGAAGGTCCAGCACTCGGGTGCCT
ACTGGTGCCAGGGGACCAACAGTGTGGGCAAGGGCCGTTGCGCTCTCAGCACCCCTTACTGTCTACTATAGCCCG
AGACCATCGGCAGGCGAGTGGCTGTGGGACTCGGGTCTGCTCGCCATCCTCATCCTGGCAATCTGTGGGCTCA
AGCTCCAGCGACGTTGGAAGAGGACACAGAGCCAGCAGGGGCTTCAGGAGAATTCCAGCGGCCAGAGCTTCTTTG
TGAGGAATAAAAAGGTTAGAAGGGCCCCCTCTCTGAAGGCCCCCACTCCCTGGGATGCTACAATCCAATGATGG
AAGATGGCATTAGCTACACCACCCTGCGCTTTCCCGAGATGAACATACCACGAACCTGGAGATGCAGAGTCTCAG
AGATGCAGAGACCTCCCCGACCTGCGATGACACGGTCACTTATTAGCATTGCACAAGCGCCAAGTGGGCGACT
ATGAGAACGTCATTCCAGATTTTCCAGAAGATGAGGGGATTCACTACTCAGAGCTGATCCAGTTTGGGGTCCGGG
AGCGGCCTCAGGCACAAGAAAATGTGGACTATGTGATCCTCAAACATTGACACTGGATGGGCTGCAGCAGAGGCA
CTGGGGGCAGCGGGGCCAGGGAAGTCCCCGAGTTTCCCCAGACACCGCCACATGGCTTCTCCTGCGTGCATGT
GCGCACACACACACACACGACACACACACACACTCACTGCGGAGAACCTTGTGCTGGCTCAGAGCCA
GTCTTTTGGTGAGGGTAACCCCAAACCTCCAAACCTCTGCCCCGTCTCTCTTCCACTCTCCTTGCTACCCAGA
AATCATCTAAATACCTGCCCTGACATGCACACCTCCCTGCCCCACCAGCCCACTGGCCATCTCCACCCGGAGCT
GCTGTGTCTCTGGATCTGCTCGTCAATTTCTTCCCTTCTCCATCTCTCTGGCCCTCTACCCCTGATCTGACAT
CCCCACTACGAATATTATGCCAGTTTCTGCTCTGAGGGAAAGCCAGAAAAGGACAGAAACGAAGTAGAAAG
GGGCCCAGTCTGCGCTGGCTTCTCCTTGGGAAGTGAGGCATTGCACGGGAGACGTACGTATCAGCGGCCCTT
GACTCTGGGACTCCGGGTTTGAAGTGGACACACTGGTGTGGATTAACCTGCCAGGGAGACAGAGCTCACAATAA
AAATGGCTCAGATGCCACTTCAAAGAAAAA

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FIGURE 2012

MHLLGPWLLLLLVLEYLAFSDSSKWVFEHPETLYAWEGACVWIPCTYRALDGDLESFILFHNPEYNKNTSKFDGTR
LYESTKDGVKVPSEQKRVQFLGDKNKNCTLSIHPVHLNDSGQLGLRMESKTEKWMERIHLNVSERPFPFPHIQLPPE
IQESQEVTLTCLLNFSYGYPIQLQWLLEGVPMRQAAVTSTSLTIKSVFTRSELKFSPQWSHHGKIVTCQLQDAD
GKFLSNDTVQLNVKHTPKLEIKVTPSDAIVREGDSVTMTCEVSSSNPEYTTVSWLKDGTSLKKQNTFTLNLREVT
KDQSGKYCCQVSNDVGPRSEEVFLQVQYAEPEPSTVQILHSPAVEGSQVEFLCMSLANPLPTNYTWYHNGKEMQG
RTEEKVHIPKILPWHAGTYSVAENILGTGQRGPGAELDVQYPPKKVTTVIQNPMPIREGDTVTLSCNYNSSNPS
VTRYEWKPHGAWEEPVLGVLKIQNVGWDNTTIACARCNSWCSPVALNVQYAPRDVVRKIKPLSEIHSGNSV
SLQCDFSSSHPKVEVQFFWEKNGRLLGKESQLNFDSISPEDAGSYSCWVNNSIGQTASKAWTLEVLYAPRRLRVSM
SPGDQVMEGKSATLTCESDANPPVSHYTWFDDWNNQSLPHHSQKLRLPEVKVQHSGAYWCQGTNSVGKGRSPLSTL
TVYYSPETIGRRVAVGLGSLAILILAICGLKLQRRWKRTQSQQGLQENSSGQSFVRNKKVRRAPLSEGPHSLG
CYNPMMEDGISYTTLRFPENIPRTGDAESSEMQRPPRTCDDTVTYSALHKRQVGDYENVIPDFPEDEGIHYSEL
IQFGVGERPQAQENVYVILKH

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FIGURE 2013

GTCTCCCCACTGTCAGCACCTCTTCTGTGTGGTGAGTGGACCGCTTACCCCACTAGGTGAAGATGTCAGCCCAG
GAGAGCTGCCTCAGCCTCATCAAGTACTTCCTCTTCGTTTTCAACCTCTTCTTCTTCGTCCCTCGGCAGCCTGATC
TTCTGCTTCGGCATCTGGATCCTCATCGACAAGACCAGCTTCGTGTCCTTTGTGGGCTTGGCCTTCGTGCCTCTG
CAGATCTGGTCCAAAGTCCTGGCCATCTCAGGAATCTTCACCATGGGCATCGCCCTCCTGGGTGTGTGGGGGCC
CTCAAGGAGCTCCGCTGCCTCCTGGGCTGTATTTTGGGATGCTGCTGCTCCTGTTTGCCACACAGATCACCTG
GGAATCCTCAICTCCACTCAGCGGGCCCAGCTGGAGCGAAGCTTGCGGGACGTCGTAGAGAAAACCATCCAAAAG
TACGGCAGCAACCCCGAGGAGACCGCGGCCGAGGAGAGCTGGGACTATGTGCAGTTCCAGCTGCGCTGCTGCGGC
TGGCACTACCCGCGAGGACTGGTTCCAAGTCCTCATCTGAGAGGTAACGGGTCGGAGGCGCACCGCGTGCCCTGC
TCCTGCTACAACCTTGTCGGCGACCAACGACTCCACAATCCTAGATAAGGTGATCTTGCCCCAGCTCAGCAGGCTT
GGACACCTGGCGCGGTCCAGACACAGTGCAGACATCTGCGCTGTCCCTGCAGAGAGCCACATCTACCGCGAGGGC
TGCGCGCAGGGCCTCCAGAAGTGGCTGCACAACAACCTTATTTCCATAGTGGGCATTTGCTGGGCGTCGGCCTA
CTCGAGCTCGGGTTTCATGACGCTCTCGATATTCTGTGTCAGAAACCTGGACCACGTCTACAACCGGCTCGCTCGA
TACCGTTTAGGCCCCCGCCCTCCCCAAAGTCCCGCCCCGCCCCCGTCACGTGCGCTGGGCACTTCCCTGCTGCCTGT
AAATATTTGTTTAAATCCCCAGTTGCGCTGGAGCCCTCCGCCTTCACATTCCCCTGGGGACCCACGTGGCTGCGTG
CCCCTGCTGCTGTACCTCTCCACGGGACCTGGGGCTTTTCGTCCACAGCTTCCTGTCCCCATCTGTGCGCCTAC

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FIGURE 2014

MSAQESCLSLIKYFLEVFNLFVGLGSLIFCFGIWILIDKTSFVSFVGLAFVPLQIWSKVLAISGIFTMGIALLG
CVGALKELRCLLGLYFGMLLLLFATQITLGILISTQRAQLERSLRDVVEKTIQKYGTNPEETAEEESWDYVQFQL
RCCGWHYPQDWFQVLILRGNGSEHRVPCSCYNLSATNDSTILDKVILPQLSRLGHLARSRHSADICAVPAESHI
YREGCAQGLQKWLHNNLISIVGICLGVGLELGFMTLSIFLCRNLDHVYNRLARYR

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FIGURE 2015

TGCTGCAACTCAAACCTAACCAACCCACTGGGAGAAGATGCGCTGGGGGTCCAGGAGTCCTCCAAGCTCTGCCTGCC
ACCATCTTCCTCCTCTTCCTGCTGTCTGCTGTCTACCTGGGCCCTGGGTGCCAGGCCCTGTGGATGCACAAGGTC
CCAGCATCAATTGATGGTGAGCCTGGGGGAAGACGCCCCTTCCAATGCCCCGACAATAGCAGCAACAACGCCAAC
GTCACCTGGTGGCGCGTCTCCATGGCAACTACACGTGGCCCCCTGAGTTCTTGGGCCCGGGCGAGGACCCCAAT
GGTACGCTGATCATCCAGAATGTGAACAAGAGCCATGGGGGCATATACGTGTGCCGGGTCCAGGAGGGCAACGAG
TCATACCAGCAGTCCTGCGGCACCTACCTCCGCGTGCGCCAGCCGCCCCCAGGCCCTTCCTGGACATGGGGGAG
GGCACCAAGAACCGAATCATCACAGCCGAGGGGATCATCCTCCTGTTCTGCGCGGTGGTGCTGGGACGCTGCTG
CTGTTTCAGGAAACGATGGCAGAACGAGAAGCTCGGGTTGGATGCCGGGGATGAATATGAAGATGAAAACCTTTAT
GAAGGCCTGAACCTGGACGACTGCTCCATGTATGAGGACATCTCCCGGGGCTCCAGGGCACCTACCAGGATGTG
GGCAGCCTCAACATAGGAGATGTCCAGCTGGAGAAGCCGTGACACCCCTACTCCTGCCAGGCTGCCCCCGCCTGC
TGTGCACCCAGCTCCAGTGTCTCAGCTCACTTCCCTGGGACATTCTCCTTTCAGCCCTTCTGGGGGCTTCCTTAG
TCATATTCCCCAGTGGGGGGTGGGAGGGTAACCTCACTCTTCTCCAGGCCAGGCCCTCCTTGGACTCCCCTGGGG
GTGTCCCACTCTTCTTCCCTCTAAACTGCCCCACCTCCTAACCTAATCCCCACGCCCGCTGCCTTTCCAGGCT
CCCCCTACCCAGCGGGTAATGAGCCCTTAATCGCTGCCTCTAGGGGAGCTGATTGTAGCAGCCTCGTTAGTGTC
CCCCCTCCTCCTGATCTGTCAGGGCCACTTAGTGATAATAAATTCTTCCCACTGC

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FIGURE 2016

MPGGPGVLQALPATIFLLFLLSAVYLGPGCQALWMHKVPASLMVSLGEDAHFQCPHNSSNNANVTWWRVLHGNYT
WPPEFLGPGEDPNEPPRPFLDMGEGTKNRIITAEGIILLFCAVVPGTLLLFRKRWQNEKLGLDAGDEYEDENLY
EGLNLDDCSMYEDISRLQGTQYQDVGSLNIGDVQLEKP

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FIGURE 2017A

GCCCTCCCAGAGCTGCCGGACGCTCGCGGGTCTCGGAACGCATCCCGCCGCGGGGGCTTCGGCCGTGGCATGGGC
GCCGCGGGCCTGCTCGGGGTTTTCTTGGCTCTCGTCGCACCGGGGTCCTCGGGATTTCTTGTGGCTCTCCTCCG
CCTATCCTAAATGGCCGATTAGTTATTATTCTACCCCCATTGCTGTTGGTACCGTGATAAGGTACAGTTGTTCA
GGTACCTTCCGCCTCATTGGAGAAAAAGTCTATTATGCATAACTAAAGACAAAGTGGATGGAACCTGGGATAAA
CCTGCTCCTAAATGTGAATATTTCAATAAAATATTCTTCTTCCCTGAGCCCATAGTACCAGGAGGATACAAAATT
AGAGGCTCTACACCCTACAGACATGGTGATTCTGTGACATTTGCCTGTAAAACCAACTTCTCCATGAACGGAAAC
AAGTCTGTTTGGTGTCAAGCAAATAATATGTGGGGGCCGACACGACTACCAACCTGTGTAAGTGTTCCTCTC
GAGTGTCCAGCACTTCCATGATCCACAATGGACATCACACAAGTGAGAATGTTGGCTCCATTGCTCCAGGATTG
TCTGTGACTTACAGCTGTGAATCTGGTTACTTGGCTTGTGGAGAAAAGATCATTAACTGTTTGTCTTCGGGAAAA
TGGAGTGTGTCCCCCCCCACATGTGAAGAGGCACGCTGTAAATCTCTAGGACGATTTCCCAATGGGAAGGTAAAG
GAGCCTCCAATTCTCCGGGTGGTGTAACTGCAAACTTTTTCTGTGATGAAGGGTATCGACTGCAAGGCCACCT
TCTAGTCGGTGTGAATTGCTGGACAGGGAGTTGCTTGGACCAAAATGCCAGTATGTGAAGAAATTTTTGCCCCA
TCACCTCCCCCTATTCTCAATGGAAGACATATAGGCAACTACTAGCAAATGTCTCATATGGAAGCATAGTCACT
TACACTTGTGACCCGGACCCAGAGGAAGGAGTGAACCTTATCCTTATTGGAGAGAGCACTCTCCGTGTACAGTT
GATAGTCAGAAGACTGGGACCTGGAGTGGCCCTGCCCCACGCTGTGAACCTTCTACTTCTGCGGTTCACTGTCCA
CATCCCCAGATCCTAAGAGGCCGAATGGTATCTGGGCAGAAAGATCGATATACCTATAACGACACTGTGATATTT
GCTTGCATGTTTGGCTTACCTTGAAGGGCAGCAAGCAAATCCGATGCAATGCCCAAGGCACATGGGAGCCATCT
GCACCAGTCTGTGAAAAGGAATGCCAGGCCCTCCTAACATCCTCAATGGGCAAAAGGAAGATAGACACATGGTC
CGCTTTGACCCTGGAACATCTATAAAATATAGCTGTAACCTGGCTATGTGCTGGTGGGAGAAGAATCCATACAG
TGTAACCTCTGAGGGGTGTGGACACCCCTGTACCCCAATGCAAAGTGGCAGCGTGTGAAGCTACAGGAAGGCAA
CTCTTGACAAAACCCAGCACCAATTTGTTAGACCAGATGTCAACTCTTCTGTGGTGAAGGGTACAAGTTAAGT
GGGAGTGTATATCAGGAGTGTCAAGGCACAATTCCTTGGTTTATGGAGATTCGTCTTTGTAAGAAATCACCTGC
CCACCACCCCTGTTATCTACAATGGGGCACACACCGGGAGTTCCTTAGAAGATTTCCATATGGAACCACGGTC
ACTTACACATGTAACCTGGGCCAGAAAGAGGAGTGAATTCAGCCTCATTGGAGAGAGCACCATCCGTTGTACA
AGCAATGATCAAGAAAGAGGCACCTGGAGTGGCCCTGCTCCCTATGTAACTTTCCCTCCTGTGTCCAGTGC
TCACATGTCCATATTGCAAATGGATACAAGATATCTGGCAAGGAAGCCCCATATTTCTACAATGACACTGTGACA
TTCAAGTGTATAGTGGATTTACTTTGAAGGGCAGTAGTCAGATTTCGTTGCAAAGCTGATAACACCTGGGATCCT
GAAATACCAGTTTGTGAAAAGAAACATGCCAGCATGTGAGACAGAGTCTTCAAGAACTTCCAGCTGGTTACGCT
GTGGAGCTAGTTAATACGTCCTGCCAAGATGGGTACCAGTTGACTGGACATGCTTATCAGATGTGTCAAGATGCT
GAAAATGGAATTTGGTTCAAAAAGATTCCACTTTGTAAAGTTATTCACTGTACCCCTCCACCACTGATTGTCAAT
GGGAAGCACACAGGGATGATGGCAGAAAACCTTCTATATGGAATGAAGTCTCTTATGAATGTGACCAAGGATTC
TATCTCCTGGGAGAGAAAAATTGCAGTGCAGAAGTGATTCTAAAGGACATGGATCTTGGAGCGGGCCTTCCCCA
CAGTGTCTACGATCTCCTCTGTGACTCGCTGCCCTAATCCAGAAGTCAAACATGGGTACAAGCTCAATAAAACA
CATTCTGCATATTCCCACAATGACATAGTGTATGTTGACTGCAATCCTGGCTTATCATGAATGGTAGTCGCGTG
ATTAGGTGTCACTGATAACACATGGGTGCCAGGTGTGCCAACTTGTATGAAAAAGCCTTCATAGGGTGTCCA
CCTCCGCCTAAGACCCCTAACGGGAACCATACTGGTGGAAACATAGCTCGATTTTCTCCTGGAATGTCAATCCTG
TACAGCTGTGACCAAGGCTACCTGCTGGTGGGAGAGGCACTCCTTCTTTGCACACATGAGGGAACCTGGAGCCAA
CCTGCCCTCATTGTAAAGAGGTAAACTGTAGCTCACCAGCAGATATGGATGGAATCCAGAAAGGGCTGGAACCA
AGGAAAATGTATCAGTATGGAGCTGTTGTAACCTCTGGAGTGTGAAGATGGGTATATGCTGGAAGGCAGTCCCCAG
AGCCAGTGCCCAATCGGATACCAATGGAACCTCCCTGGCGGTTTGAGATCCCGTTCACTTGCTCCTGTCTCTT
TGTGGTATTGCTGCAGTTTGATACTTCTTACCTTCTTGATTGTCACTTATACGTTATACGTTGATATCAAAACACAGA
GAACGCAATTATTATACAGATACAAGCCAGAAAGAAGCTTTTCAATTTAGAAGCACGAGAAGTATATTCTGTTGAT
CCATACAACCCAGCCAGCTGATCAGAAGACAACTGGTGTGTGCCCTCATTGCTTGGAAATTCAGCGGAATATTGAT
TAGAAAGAACTGCTCTAATATCAGCAAGTCTCTTTATATGGCCCAAGATCAATGAAATGATGTCAATAAGCGAT
CACTTCTATATGCACTTATTCTCAAGAAGAATCTTTATGTTAAAGATGGGAGCCAGTTTCACTGCCATATA
CTCTTCAAGGACTTTCTGAAGCCTCACTTATGAGATGCCTGAAGCCAGGCCATGGCTATAAACAATTACATGGCT
CTAAAAGTTTTTGGCCTTTTTAAGGAAGGCATAAAAAGAGCTGTCTGGTATCTAGACCCATCTTCTTTTTGAA
ATCAGCATACTCAATGTTACTATCTGCTTTTGGTTATAATGTGTTTTTAATTATCTAAAGTATGAAGCAATTTCT

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FIGURE 2017B

GGGGTTATGATGGCCTTACCTTTATTAGGAAGTATGGTTTTATTTTGATAGTAGCTTCCTCCTCTGGTGGTGTTA
ATCATTTCATTTTTACCTTACTGTTTGAGTTTCTCTCACATTACTGTATATACTTTGCCTTCCATAATCACTC
AGTGATTGCAATTTGCACAAGTTTTTTAAATTATGGGAATCAAGATTTAATCCTAGAGATTTGGTGTACAATTC
AGGCTTTGGATGTTTCTTTAGCAGTTTTGTGATAAGTTCTAGTTGCTTGTAATAATTCACCTAATAATGTGTACA
TTAGTCATTCAATAAATTGTAATTGTAAAGAAAA

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FIGURE 2018

MGAAGLLGVFLALVAPGVLGISCGSPPPILNGRISYYSTPIAVGTVIRYSCSGTFRLIGEKSLLCITKDKVDGTW
DKPAPKCEYFNKYSSCPEPIVPGGYKIRGSTPYRHGDSVTFACKTNFSMNGNKSVMCQANNMWGPTRLPTCVSVF
PLECPALPMIHNGHHTSENVGSIAPGLSVTYSCESGYLLVGEKIINCLSSGKWSAVPPTCEEARKSLGRFPNGK
VKEPPILRVGVTANFFCDEGYRLQGPPSSRCVIAGQGVAWTKMPVCEEIFCPSPPPILNGRHIGNSLANVSYGSI
VTYTCDPDPEEGVNFILIGESTLRCTVDSQKTGTWSGPAPRCELSTSAVQCPHPQILRGRMVSGQKDRYTYNDTV
IFACMFGFTLKGSQIRCNAGQGTWEPSAPVCEKECQAPPNINLGQKEDRHMVRFDPGTSIKYSCNPGYVLVGEES
IQCTSEGVWTPVPVQCKVAACEATGRQLLTKPQHGFVRPDVNSSCGEGYKLSGSVYQECQGTIPWFMEIRLCKEI
TCPPPPVIYNGAHTGSSLEDFPYGTTVTYTCNPGPERGVEFSLIGESTIRCTSNDQERGTWSGPAPLCKLSLLAV
QCSHVHIANGYKISGKEAPYFYNDTVTFKCYSGFTLKGSQIRCKADNTWDPEIPVCEKETCQHVRQSLQELPAG
SRVELVNTSCQDGYQLTGAYQMCQDAENGIWFKKIPLCKVIHCHPPPVIYNGKHTGMAENFLYGNVSYECDQ
GFYLLGEKKLQCRSDSKGHGSWSGSPQCLRSPPVTRCPNPEVKHGYKLNKTHSAYSHNDIVYVDCNPGFIMNGS
RVIRCHTDNTWVPGVPTCMKKAFIGPPPPKTPNGNHTGGNIARFSPGMSILYSCDQGYLLVGEALLLCTHEGTW
SQPAPHCKEVNCSSPADMDGIQKGLEPRKMYQYGAVVTLECEDGYMLEGSPQSQCQSDHQWNPPLAVCRSRSLAP
VLCGIAAGLILLTFLIVITLYVISKHRERNYYTDTSQKEAFHLEAREVYSVDPYNPAS

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FIGURE 2019A

CCCAGCCCAAGTTTTTGGGTGGGGATCCAGACTGGTTATACGTACCTTCAGTCCTTCTCCAGAGGAAGGCAGA
AACACCTCAAAGCCTGCATGTAAGAACATCTACTGAGAAATTATTTAATCAGACACCAGCTGAGTGGGAGAAAG
GAAAAGAACAGAGAAGAACAACAACTCCCTGGTCTTGGATGTAAGAGAATCCAGCAGAGATGGACTGGAGT
TTCTTCAGAGTAGTTGCAGTGCTGTTTCTTTCTGGTGGTGGTAGAAGTTAACAGTGAATCCGAATCCAGGTA
AGAGATTATAACACTAAAAATGGCACCATCAATGGCATTCAATCCGAAGGCAGAAACGTGAATGGATCAAGTTC
GCAGCAGCCTGTCGTGAAGGTGAAGACAACCTCAAAGAGGAACCCAATCGCCAAAATTCAGTCAAGTGTGCTGCA
AACCAGCAAGTTACATACCGCATCTCTGGAGTAGGAATTGATCAGCCACCATATGGGATCTTTGTCATTAATCAG
AAAAGTGGTGAAATTAATATAACATCCATAGTTGATCGAGAGGTCACTCCTTTCTTCATTATCTACTGCCGAGCT
CTGAACCTCAATGGGCCAAGATTTAGAGAGGCCCTCTAGAGCTCAGAGTCAGGGTTTTGGATATAAATGACAACCT
CCAGTGTTTTCAATGGCTACATTTGCAGGACAAATAGAAGAAAATTTCTAATGCAATACACTGGTGATGATACTC
AATGCTACTGACGCAGATGAACCGAACAATTTGAACTCAAAAATAGCCTTCAAGATTATAAGACAAGAACCTTCA
GATTCACCAATGTTTTATTATCAACAGAAATCTGGAGAAATTCGAACGATGAATAATTTCTAGACAGAGAGCAA
TACGGCCAGTATGCTCTTGCTGTAAGAGGCTCTGACCGAGATGGTGGGGCAGATGGCATGTGACGGGAATGTGAG
TGCAACATTTAAATCCTCGATGTCATGATAATATCCCTTACATGGAACAGTCTTCATATACCATAGAAATTCAA
GAAAATACTCTAAATTCAAATTTGCTCGAGATTAGAGTAATTGATTGGATGAAGAGTTCTCAGCTAACTGGATG
GCAGTAATTTCTTTATCTCTGGAATGAAGGAAATTTGGTTTGAGATAGAAATGAATGAAAGAACAATGTGGGA
ATTTTAAAGGTTGTTAAGCCCTTAGATTATGAAGCTATGCAGAGTCTGCAACTCAGTATTGGTGTGAGAAATAAA
GCTGAATTTTCATCATTCAATTATGTCTCAATATAAACTGAAAGCATCTGCAATTTCTGTGACTGTGTTAAATGTA
ATTGAAGGCCAGTGTTTCGTCCAGGTTCAAAGACATATGTTGTAACCTGGTAATATGGGATCAAATGATAAAGTG
GGAGACTTTGTAGCTACTGACCTGGACACAGGTAGACCTTCAACGACTGTAGGTATGTAATGGGAAATAATCCA
GCTGACCTGCTAGCTGTTGATTCAAGAACAGGCAAACCTCACTTTGAAAAATAAGTTACCAAGGAACAGTACAAT
ATGCTCGGAGGAAAATACCAAGGAACGATTCTCTCTATAGATGATAATCTCAAAGAACTTGCAGTGGTACAAT
AATATTAACATTCAAAGTTTTGGTAATGACGACAGGACTAATACAGAGCCGAACACTAAAATTACTACCAATACT
GGCAGACAAGAAAGTACTTCTTCCACTAACTATGATACCAGCACAACTTCTACTGACTCTAGCCAAGTATATTCT
TCTGAACCCGGAACCGAGCCAAAGATTTGTTATCAGACAATGTACATTTGGTCTGCTGGCATTGGACTCCTC
ATCATGGGATTCTTGGTCTTAGGATTGGTCCCATTTTGTGATCTGTTGTGATTGTGGAGGTGCTCCTCGTAGT
GCAGCTGGCTTTGAGCCTGTTCCGAATGTTGATGGAGCAATTCATTGATGGGCAGTAGAAGGACCACAGCCT
GAACCCAGGGATATAACCACTGTCTATACCACAAATACCACCTGATAACGCAAATATAATTGAATGCATTGACAAC
TCAGGAGTTTATACAAATGAGTATGGTGGCAGAGAAATGCAAGATCTGGGAGGAGGAGAGAGAAATGACAGGATT
GAACTAACAGAGGGAGTTAAACTTCAGGAATGCCTGAGATATGTCAAGAACTCTGGAACATTAAGAAGAAAT
TCTATGAGGGAATGTAGAGAAGGAGGTCTGAATATGAATTTGATGAAAGCTACTTCTGTGCAAAAGCATATGCT
TACGCAGATGAAGATGAAGGACGCCCATCTAATGACTGTTTGTCTATATGACATCGAAGGTGTAGGTTCCCT
GCTGGCTCTGTGGGTGTTGTAGCTTCATTGGAGAAGACCTGGATGACAGCTTCTTGGATACCTTGGGACCTAAA
TTTAAGAAGTTGGCAGACATCAGCCTAGGAAAAGAATCATATCCAGACCTTGATCCTTCTTGGCCACCACAAAGC
ACTGAACCAAGTTTGCCTTCTCAGGAAACAGAGCCCGTTGTTAGTGGACACCCACCAATCTCCCCACATTTCCGC
ACTACCACAGTAATTTCTGAGAGCACCTATCCCTCGGGACCTGGTGTACTGCATCCTAAGCCTATTCTCGATCCT
CTGGGCTATGGTAATGTCACTGTGACCGAGTCTTACACCACCTCTGACACTCTGAAGCCCTCTGTGCACGTTTAC
GATAACCGACCAGCATCAAACGTGGTAGTGACAGAGAGAGTGGTGGGCCAATCTCTGGCGCTGATTGTCATGGA
ATGTTAGAGATGCCTGACTTGCAGATGGGTGCAATGTTATAGTGACAGAAAGGGAATAGCACCAGCTCTAGT
CTACCCACCTCTCTGACTATCCATCATCTAGAGAGTCTTCAAATGTGGTAGTGACAGAAAGAGTAATCCAACCA
ACTTCCGGCATGATAGGTAGTCTGAGTATGCACCCGAGTTAGCCAATGCCACAATGTCAATTGTGACAGAGAGG
GTTGTTTCTGGTGCTGGCGTAACCTGGAATTAGTGGCACCAGTGGGATCAGCGGTGGCATAGGCAGCAGTGGCCTG
GTTGGCACCAGCATGGGTGCTGGGAGCGGTGCCCTGAGTGGAGCTGGCATAAGTGGTGGTGGCATTGGCCTGAGC
AGCTTGGGAGGGACAGCCAGCATTGGCCACATGAGGAGTTCCTCTGACCATCACTTTAACCAACCAATTGGGTCC
GCCTCCCCTAGCACAGCTCGAAGTCGAATCACAAGTATAGTACCGTGCAATATAGCAAGTAGTCAGGACCCAG
CTCACTTTTTCATAGTCATTGTGTTTAGATCCAATTTCCACCCTAAAAAACTAACAATGTGATTTATAACGCA
CAACTTCGTGCTCAGGTCACTAGGAGCAAGGTGAGAAATCACAATGAGAAAAATAATGGAAACACCAGTCTA
GGGAGAGCTCTCCTTAGCATTCAAACTTTTCTTATATTAGGACTAAGGAACCTAAACTTGGGCAGAGTC

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FIGURE 2019B

TTCTTTGTGCCTGAGTGGCCTGTAGTCCATCTCCAGCATGTAAGTGGCCTTACGATGGCAATTGGCATCATTCTC
CTTGCTCTGTTTTGCTTTTCCATATAGCTCGAGCAAAATTCAAAAAGAACTAAATATGCAATATATGTTTCATATC
TATGGGAAAAATCTAAATGTGTGCCAGATGCCCTGTTGGTTTCACAGATAACATAAATAAAAAATTCAACCACAG
ATTTATACAAGGGTTAACCATTTTTTTTAAGTTTGACTACATAGTCAAGTCCACAAGCCATCAAGCACTCCTACC
TTAATTATTGCACTAGAGAAAAATAAATTCCAAATTAGGAAGTGTTCCTAGGAGGAAAAATCCATTAGAGAGTGG
CAATAGGATGAGGTTTCTTCAGGGTAAACTAGCAATGCCTGAGCCTGAACCTTAATGTGGGGCCTCAGTTAATAT
CCCTGTGGAGTCAAGGATTCTTCTGATTCTAGTGTGTGTTTAGTGATAGATGTAGTCTTGACGAATATTGCTTAC
TGGTGAGGTTGAGGAATATCACACTCGTCTTTCCCTTTACCACTGTGGTTTGAAGTAAAGCAAACTCACT
AAGTTTACTTCTCGAATTGAAGCAAGTGAGGCCTGACATGGTTGTCATCACTAGTGGCAATGACCTTCCAAGTA
AGCAGATGGGAAGTGAATTGTGTTTTCAGGTTTTGTTTTTAGTAGGTGATATTCATTTCGTATCCAGCTCTTTATT
ACATAGCTCTGAAGTTAAATGATTTACATAGGCCGAGCTGTGGACAAAAAAGAAAGCAGCAGCTTGTAGTAT
GCTTAAGCTTTGGGAATTTTTTTTTTAAGGGATCTAAAAAATGTTTTAGAACATGTAAATGTTAATGGTG
AAAGTTGGAAAA

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FIGURE 2020

MDWSFFRVVAVLFIFLVVVEVNSEFRIQVRDYNTKNGTIKWHHSIRROKREWIKFAAACREGEDNSKRNP IAKIHS
DCAANQQV TYRISGVGIDQPPYGIFVINQKTGEINITSIVDREVT PFFIIYCRALNSMGQDLERPLELRVRVLDI
NDNPPVFSMATFAGQIEENS NANTLV MILNATDADEPNNLNSKIAFKIIRQEPSPMPFIINRNTGEIRTMNNFL
DREQYQYALAVRGSDRDGGADGMSAECECN IKILDVNDNIPYMEQSSYTI EI QENTLNSNLEIRVIDLDEEFS
ANWMAVIFFIISGNEGWNWFEIEMNERTNVGILKVVKPLDY EAMQSLQLSIGVRNKA EFHHSIMSQYK LKAS AISVT
VLNVIEGPVFRPGSKTYVVTGNMGSNDKVGDFVATDLD TGRPSTTVRYVMGNNPADLLAVDSRTGKLT LKNKVT
EQYNMLGGKYQG TILSIDDNLQRTCTGTININIQSFGNDDRTNTEPNTKITTTNTGRQESTSSTNYDTSTTSDSS
QVYSSEPGNGAKDLLSDNVHFGPAGIGLLIMGFLVLGLVPFLMICDCGGA PRSAAGFEPVPECS DGAH SWAVE
GPQPEPRDITTVIPQIPPDNANIIECIDNSGVYTNEYGGREM QDLGGGERMTGFELTEGVKTS GMPEICQEYSGT
LRRNSMRECREGGLNMNFMESYFCQKAYAYADEDEGRPSNDCLLIYDIEGVGSPAGSVGCCSFIGEDLDDSF LDT
LGPKFKKLADISLGKESY PDLDP SWPPQSTEPVCLPQETEPVVS GHPPISP HFGTTTVISESTYPSGPGVLHPKP
ILDPLGYGNVTVTESYTTSDTLKPSVHVHDNR PASNVVVTERVVGPISGADLHG MLEMPDLRDGS NVIVTERVIA
PSSSLPTSLTIHHPRESSNVVVTERVIQPTSGMIGSLSMHPELANAHNVIVTERVVSGAGVTGISGTTGISGGIG
SSGLVGTS MGAGSGALSGAGISGGIGLSSLGGTASIGHMRSSSDH HFNQTIGSASPSTARSRTKYSTVQYSK

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FIGURE 2021

GCCCCGCCGCCGGCAGTGGACCGCTGTGCGCGAACCCTGAACCCTACGGTCCCGACCCGCGGGCGAGGCCGGGTA
CCTGGGCTGGGATCCGGAGCAAGCGGGCGAGGGCAGCGCCCTAAGCAGGCCCCGGAGCGATGCGCAGCCTTGATGAC
CCCGGGAACCGGGGCCCCACCCGCGCCTGGTGACTTCTCCGGGGAAGGGAGCCAGGGACTTCCCGACCCCTTCGCC
AGAGCCCAAGCAGCTCCCGGAGCTGATCCGCATGAAGCGAGACGGAGGCCGCTGAGCGAAGCGGACATCAGGGG
CTTCGTGGCCGCTGTGGTGAATGGGAGCGCGCAGGGCGCACAGATCGGGGCCATGCTGATGGCCATCCGACTTCG
GGGCATGGATCTGGAGGAGACCTCGGTGCTGACCCAGGCCCTGGCTCAGTCGGGACAGCAGCTGGAGTGGCCAGA
GGCCTGGCGCCAGCAGCTTGTGGACAAGCATTCCACAGGGGGTGTGGGTGACAAGGTGAGCCTGGTCCTCGCACC
TGCCCTGGCGGCATGTGGCTGCAAGGTGCCAATGATCAGCGGACGTGGTCTGGGGCACACAGGAGGCACCTTGGA
TAAGCTGGAGTCTATTCTGGATTCAATGTGTCATCCAGAGCCCAGAGCAGATGCAAGTGCTGCTGGACCAGGCCGG
CTGCTGTATCGTGGGTGAGAGTGGAGCAGCTGGTTCCTGCGGACGGAATCCTATATGCAGCCAGAGATGTGACAGC
CACCCTGGACAGCCTGCCACTCATCACAGCCTCCATTCTCAGTAAGAACTCGTGGAGGGGCTGTCCGCTCTGGT
GGTGGACGTTAAGTTGAGGGGGCGCCGCTCTTCCCCAACAGGAGCAGGCCCGGGAGCTGGCAAAGACGCTGGT
TGGCGTGGGAGCCAGCCTAGGGCTTCGGGTGCGCGCAGCGCTGACCGCCATGGACAAGCCCCTGGGTGCTGCGT
GGGCCACGCCCTGGAGGTGGAGGAGGCGCTGCTGTCATGGACGGCGCAGGCCCGCCAGACTTAAGGGACCTGGT
CACCACGCTCGGGGGCGCCCTGCTCTGGCTCAGCGGACACGCGGGGACTCAGGCTCAGGGCGCTGCCCGGGTGGC
CGCGGCGCTGGACGACGGCTCGGCCCTTGGCCGCTTCGAGCGGATGCTGGCGGCGCAGGGCGTGGATCCCGGTCT
GGCCCGAGCCCTGTGCTCGGGAAGTCCCGCAGAACGCCGGCAGCTGCTGCCTCGCGCCCGGGAGCAGGAGGAGCT
GCTGGCGCCCCGAGATGGCACCGTGGAGCTGGTCCGGGCGCTGCCGCTGGCGCTGGTGCTGCACGAGCTCGGGG
CGGGCGCAGCCGCGCTGGGGAGCCGCTCCGCTGGGGGTGGGCGCAGAGCTGCTGGTGCAGTGGGTGAGAGCT
GCGCCGTGGGACCCCTGGCTCCGCGTGACCGGGACGGCCCCGCGCTCAGCGGCCCGCAGAGCCGCGCCCTGCA
GGAGGCGCTCGTACTCTCCGACCGCGCGCCATTGCGCGCCCCCTCGCCCTTCGAGAGCTCGTTCTGCCGCCGCA
GCAATAAGCTCCTTTGCCGCGAAA

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FIGURE 2022

MAALMTPGTGAPPAPGDFSGEGSQGLPDPSPPEPKQLPELIRMKRDDGGRLSEADIRGFVAADVNGSAQGAQIGAML
MAIRLRGMDLEETSVLTQALAQSGQQLWPEAWRQQLVDKHSTGGVGDKVSLVLAPALAACGCKVPMISGRGLGH
TGGTLDKLESIPGFNVIQSPEQMQVLLDQAGCCIVGQSEQLVPADGILYAARDVTATVDSLPLITASILSKKLVE
GLSALVVDVKFGGAAVFPNQEQARELAKTLVGVGASLGLRVAAALTAMDKPLGRCVGHAEVEEALLCMDGAGPP
DLRDLVTTLGGALLWLSGHAGTQAQGAARVAAALDDGSALGRFERMLAAQGVDPLARALCSGSPAERRQLLPRA
REQEELLAPADGTVELVRALPLALVLHELGAGRSRAGEPLRLGVGAELLVDVGQRLRRGTPWLRVHRDGPALSGP
QSRALQEALVLSRAPFAAPSPFAELVLPPQQ

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FIGURE 2023

CCTGTTTGGGACACTGGACTCCCGTGAGCTGGAAGGAACAGATTTAATATCTAGGGGCTGGGTATCCCCACATCA
CTCATTITGGGGGGTCAAGGGACCCGGGCAATATAGTATTCTGCTCAGTGTCTGGAGATCATCTACCCAGGCTGGG
GCTTCTGGGACAGGCGAGGACCCACGGACCCTGGAAGAGCTGGTCCAGGGGACTGAACTCCCGGCATCTTTACAG
AGCAGAGCATGATCACATTCTGCCGCTGCTGCTGGGGCTCAGCCTGGGCTGCACAGGAGCAGGTGGCTTCGTGG
CCCATGTGGAAAGCACCTGTCTGTTGGATGATGCTGGGACTCCAAAGGATTTACATACTGCATCTCCTTCAACA
AGGATCTGCTGACCTGCTGGGATCCAGAGGAGAATAAGATGGCCCCTTGCGAATTTGGGGTGTGAATAGCTTGG
CGAATGTCTCTCACAGCACCTCAACCAAAAAGACACCCTGATGCAGCGCTTGCGCAATGGGCTTCAGAATTGTG
CCACACACACCCAGCCCTTCTGGGGATCACTGACCAACAGGACACGGCCACCATCTGTGCAAGTAGCCAAAACCA
CTCCTTTTAAACAGAGGGAGCCTGTGATGCTGGCCTGCTATGTGTGGGGCTTCTATCCAGCAGAAGTACTATCA
CGTGGAGGAAGAACGGGAAGCTTGTATGCCTCACAGCAGTGCACACAAGACTGCCCAGCCCAATGGAGACTGGA
CATACCAGACCCTCTCCCATTTAGCCTTAACCCCTCTTACGGGGACACTTACACCTGTGTGGTAGAGCACATTG
GGGCTCCTGAGCCCATCCTTCGGGACTGGACACCTGGGCTGTCCCCATGCAGACCCTGAAGGTTTCTGTGTCTG
CAGTGACTCTGGGCTGGGCCTCATCATCTTCTCTCTTGGTGTGATCAGCTGGCGGAGAGCTGGCCACTCTAGTT
ACACTCCTCTTCCITGGGTCCAATTATTGAGAAGGATGGCACATTTCTTAGAGGCAGAATCTTACAACCTCCACTC
CAAGTGAGAAGGAGATTCAAACCTCAATGATGCTACCATGCCTCTCCAACATCTTCAACCCCTGACATTATCTTG
GATCCTATGGTTTTCTCCATCCAATTCTTTGAATTTCCAGTCTCCCCTATGTAAAACCTTAGCAACTGGGGGACC
TCATTCTGGGACTATGCTGTAAACCAATTATTGTCCAAGGCTATATTTCTGGGATGAATATAATCTGAGGAAGG
GAGTTAAAGACCCTCCTGGGGCTCTCAGTGTGCCATAGAGGACAGCAACTGGTGATTGTTTCAGAGAAATAAAT
TTGGTGGA

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FIGURE 2024

MITFLPILLGLSLGCTGAGGFVAHVESTCLDDAGTPKDFTYCISFNKDLLTCWDPEENKMAPCEFGVLSLANV
LSQHLNQKDTLMQRLRNGLQNCATHQTQFWGSLNRTTPPSVQVAKTTPFNTREPVMLACYVWGFYPAEVTITWR
KNGKLVMPHSSAHKTAQPNGDWTYQTLSHLALTPSYGDTYTCVVEHIGAPEPILRDWTPGLSPMQTLKVSVAVT
LGLGLIIFSLGVISWRRAGHSSYTPLPGSNYSEGWHIS

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FIGURE 2025

GAAGTCGCACCATGTCCATGTCACCCACGGTCATCATCCTGGCATGTCTTGGGTTCTTCTTGGACCAGAGTGTGT
GGGCACACGTGGGTCTATATGAGAAACCTTCGCTTACAGCCCGGCCGGGCCCCACGGTTCGCGCAGGAGAGAACG
TGACCTTGCTCTGCAGCTCCCAGAGCTCCTTTGACATCTACCATCTATCCAGGGAAGGGGAAGCCCATGAACTTA
GGCTCCCTGCAGTGCCCAGCATCAATGGAACATTCCAGGCCGACTTCCCTCTGGGTCCTGCCACCCACGGAGAGA
CCTACAGATGCTTCGGCTCTTTCCATGGATCTCCCTACGAGTGGTCAGACCCGAGTGACCCACTGCCTGTTTCTG
TCACAGATGCTGCTGTAATGAACCAAGAGCCTGCGGGACACAGAACAGTGAACAGGGAGGACTCTGATGAACAAG
ACCTTCAGGAGGTGACATACGCACAGTTGGATCACTGCATTTTCACACAGAGAAAAATCACTGGCCCTTCTCAGA
GGAGCAAGAGACCTTCAACAGATACCAGCGTGTGTATAGAACTTCCAAATGCTGAGCCCAGAGCGTTGTCTCCTG
CCCATGAGCACCACAGTCAGGCCTTGATGGGATCTTCTAGGGAGACAACAGCCCTGTCTCAAACCCAGCTTGCCA
GCTCTAATGTACCAGCAGCTGGAATCTTGAAGGCGTGAGTC

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FIGURE 2026

MSMSPTV I I L A C L G F F L D Q S V W A H V G L Y E K P S L T A R P G P T V R A G E N V T L S C S S Q S S F D I Y H L S R E G E A H E L R L P A
V P S I N G T F Q A D F P L G P A T H G E T Y R C F G S F H G S P Y E W S D P S D P L P V S V T D A A V M N Q E P A G H R T V N R E D S D E Q D P Q E
V T Y A Q L D H C I F T Q R K I T G P S Q R S K R P S T D T S V C I E L P N A E P R A L S P A H E H H S Q A L M G S S R E T T A L S Q T Q L A S S N V
P A A G I

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FIGURE 2027

CTTAGTAACACGTTGATGAGAAATCTACTTTTTCCACTCTTGACTCACTCTGAGCCTTCACAGGGCAGTCTGCCA
AGATTGCAGGCATTGTTTGTCTTGTCTTGGATTTATGCCTTTAAATTTACCTTTTTATTACACAGCTATAGCAG
GCCTTTTTATGAGACTAACCTGGCCTCTCCACTAAAGGATGTGTGACTTTCTGGGGACAGAAGAGTACAGTCCCT
GACATCACACACTGCAGAGATGGATAACCAAGGAGTAATCTACTCAGACCTGAATCTGCCCCAAACCCAAAGAG
GCAGCAACGAAAACCTAAAGGCAATAAAAGCTCCATTTTAGCAACTGAACAGGAAATAACCTATGCGGAATTAA
CCTTCAAAAAGCTTCTCAGGATTTTCAAGGGAATGACAAAACCTATCACTGCAAAGATTTACCATCAGCTCCAGA
GAAGCTCATTGTTGGGATCCTGGGAATTATCTGTCTTATCTTAATGGCCTCTGTGGTAACGATAGTTGTTATTCC
CTCTACATTAATACAGAGGCACAACAATTCTCCCTGAATACAAGAACTCAGAAAGCACGTCATTGTGGCCATTG
TCCTGAGGAGTGGATTACATATTCCAACAGTTGTTACTACATTGGTAAGGAAAGAAGAACTTGGGAAGAGAGTTT
GCTGGCCTGTACTTCGAAGAACTCCAGTCTGCTTTCTATAGATAATGAAGAAGAAATGAAATTTCTGTCCATCAT
TTCACCATCCTCATGGATTGGTGTGTTTTCGTAACAGCAGTCATCATCCATGGGTGACAATGAATGGTTTGGCTTT
CAAACATGAGATAAAAGACTCAGATAATGCTGAACCTTAACGTGTCAGTGCTACAAGTAAATCGACTTAAATCAGC
CCAGTGTGGATCTTCAATAATATATCATTGTAAGCATAAGCTTTAGAGGTAAAGCGTTTGCATTTGCAGTGCATC
AGATAAATTGTATATTTCTTAAATAGAAATATATTATGATTGCATAAATCTTAAATGAATTATGTTATTTGCT
CTAATAAGAAAATTCTAAATCAATTATTGAAACAGGATACACACAATTACTAAAGTACAGACATCCTAGCATTG
TGTGGGCTCATTGCTCAACATGGTATTTGTGGTTTTTCAGCCTTTCTAAAAGTTGCATGTTATGTGAGTCAGC
TTATAGGAAGTACCAAGAACAGTCAAACCCATGGAGACAGAAAGTAGAATAGTGGTTGCCAATGTCTGAGGGAGG
TTGAAATAGGAGATGACCTCTAACTGATAGAACGTTACTTTGTGTCGTGATGAAAACCTTTCTAAATTTCAGTAGT
GGTGATGGTTGTAACCTCTGCGAATATACTAAACATCATTGATTTTTAATCATTTTAAGTGCATGAAATGTATGCT
TTGTACACGACACTTCAATAAAGCTATCCAGAAAAA

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FIGURE 2028

MDNQGVIIYSDNLPPNPKRQQRKPKGNKSSILATEQEITYAELNLQKASQDFQGNDKTYHCKDLPSAPEKLIVGI
LGIICLILMASVVTIVVIPSRHCGHCPEEWITYSNSCYIYIGKERRTWEESLLACTSKNSSLLSIDNEEEMKFLSI
ISPSSWIGVFRNSSHHPWVTMNGLAFFKHEIKDSDNAELNCAVLQVNRLKSAQCGSSIIYHCKHKL

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FIGURE 2029

TCTCCCTCCGCCTCCCGAGCACCAGCGGCTCTGAGCTGCCCCAGGGTCCCTCCCCGCCGCCAGCAGCCCATT
TGGAGGGAGGAAGTAAGGGAAGAGGAGAGGAAGGGGAGCCGACCGACTACCCAGACAGAGCCGGTGAATGGGTT
TGTGGTGACCCCCGCCCCCACCACCCCTCCCTTCCCACCCGACCCCCAACCCCATCCCCAGTTCGAGCCGCC
GCCCCAAAGGCCGGCGCTCGTCTTAGGAGGAGTGCCTGCCGCCGCCACCTCCGCCATGGAGCTGATCACCATT
TCGAGAAGACCGTGTCTCCCGATCGGCTGGAGCTGGAAGCGCGCAGAAAGTTCTGGAGCGTGGCGCCGTGGAGA
ACCTGCCCACTTTCTTGTGGAAGTGTCCAGAGTGTGGCAAATCCAGGAAACAGTCAGGTTGCCAGAGTTGCAG
CTGGTCTACAAATCAAGAACTCTTTGACATCTAAAGATCCAGATATCAAGGCACAATATCAGCAGAGGTGGCTTG
CTATTGATGCTAATGCTCGACGAGAAGTCAAGAACTATGTTTTCAGACATTGGGTACAGAACTTACCGGCCTA
GTTCTGCTCACAGTGTGTGGCTGGTATTGCTTGTGCAGAGATCCAGTAAACCAGTGGCCAGAACTCATTCTC
AGCTGGTGGCCAATGTCAAAACCCCAACAGCACAGAGCACATGAAGGAGTGCACATTGGAAGCCATCGGTTATA
TTTGCCAAAGATATAGACCCAGAGCAGCTACAAGATAAATCCAATGAGATTCTGACTGCCATAATCCAGGGGATGA
GGAAAGAAGAGCCTAGTAATAATGTGAAGCTAGCTGTACGAATGCACTCCTGAAGTATTGGAGTTACCAAAG
CAAACCTTTGATAAAGAGTCTGAAAGGCACCTTATTATGCAGGTGGTCTGTGAAGCCACACAGTGTCCAGATACGA
GGGTACGAGTGGCTGCTTTACAGAATCTGGTGAAGATAATGTCCTTATATTATCAGTACATGGAGACATATATGG
GTCCTGCTCTTTTTGCAATCACAATCGAAGCAATGAAAAGTGACATTGATGAGGTGGCTTTACAAGGGATAGAAT
TCTGGTCCAATGTCTGTGATGAGGAAATGGATTGGCCATTGAAGCTTCAGAGGCAGCAGAAACAGGACGGCCCC
CTGAGCACACCAGCAAGTTTTATGCGAAGGGAGCACTACAGTATCTGGTTCCAATCTCACACAGACACTAACTA
AACAGGACGAAATGATGATGACGATGACTGGAACCCCTGCAAAGCAGCAGGGGTGTGCTCATGCTTCTGGCCA
CCTGCTGTGAAGATGACATTGTCCCATGTCTCCCTTCATTAAAGAACACATCAAGAACCAGATTGGCGGT
ACCGGGATGCAGCAGTGTGGCTTTGGTTGTATCTTGAAGGACCAGAGCCAGTCAGCTCAAACCACTAGTTA
TACAGGCTATGCCACCCTAATAGAATTAATGAAAGACCCAGTGTAGTTGTTTCAGATACAGCTGCATGGACTG
TAGGCAGAATTTGTGAGCTGCTTCTGAAGCTGCCATCAATGATGTCTACTTGGCTCCCCTGCTACAGTGTCTGA
TTGAGGGTCTCAGTGTGTAACCCAGAGTGGCTTCAATGTGTGCTGGGCTTTCTCCAGTCTGGCTGAAGTGTCTT
ATGAAGCTGCAGACGTTGTGATGATCAGGAAGAACCAGCTACTTACTGCTTATCTTCTCATTGAACTCATAG
TTCAGAAGCTCCTAGAGACTACAGACAGACCTGATGGACACCAGAACAACCTGAGGAGTCTGCATATGAATCTC
TGATGGAAATGTGAAAAACAGTGCCAAGGATTGTTATCTGCTGTCCAGAAAACGACTTTGGTCATCATGGAAC
GACTGCAACAGGTTCTTCAGATGGAGTCACATATCCAGAGCACATCCGATAGAATCCAGTCAATGACCTTCAGT
CTTTACTCTGTGCAACTCTTCAGAATGTTCTTCGAAAGTGCAACATCAAGATGCTTTGCAGATCTCTGATGTGG
TTATGGCCTCCCTGTTAAGGATGTTCCAAAGCACAGCTGGGTCTGGGGGAGTACAAGAGGATGCCCTGATGGCAG
TTAGCACACTGGTGGAAAGTGTGGGTGGTGAATTCCTCAAGTACATGGAGGCCTTTAAACCCTTCTGGGCATTG
GATTAATAAATTATGCTGAATACCAGGTTGTTTGGCAGCTGTGGGCTTAGTGGGAGACTTGTGCCGTGCCCTGC
AATCCAACATCATACCTTTCTGTGACGAGGTGATGCAGCTGCTTCTGGAATTTGGGGAAATGAGAACGTCCACA
GGTCTGTGAAGCCGCAGATTCTGTGAGTGTGGTGATATTGCCCTTGCTATTGGAGGAGAGTTTAAAAAATACT
TAGAGGTTGTATTGAATACTCTTCAGCAGGCCTCCCAAGCCAGGTGGACAAGTCAGACTATGACATGGTGGATT
ATCTGAATGAGCTAAGGGAAGCTGCTTGAAGCCTATACTGGAATCGTCCAGGGATTAAAGGGGGATCAGGAGA
ACGTACACCCGGATGTGATGCTGGTACAACCCAGAGTAGAATTTATTCTGTCTTTCATTGACCACATTGCTGGAG
ATGAGGATCACACAGATGGAGTAGTAGCTTGTGCTGCTGGACTAATAGGGGACTTATGTACAGCATTGGGAAGG
ATGTACTGAAATTAGTAGAAGCTAGGCCAATGATCCATGAATGTTAACTGAAGGGCGGAGATCGAAGACTAACA
AAGCAAAAACCTTGCTACATGGGCAACAAAAGAACTGAGGAACTGAAGAACCAAGCTTGATCTGTTACCATTG
GGATGATAACCTGAGGACCCCACTGGAAATCTCCCATCTTTGAAAAACCTGGAAGTGAGGAGTGTGCACGGAT
GCTGAATGTTTGGGAATGAGAGGATGAGTGAGTGAGGCTTGAAAAACACACCACATTGAAAATCCTGCCACAGCAG
CAGCCGCAGCCGCCAACAGCAGCGCTGTAGTGAGCTAAGTAAGCACTGACTTCGTAGAAAACCATAAATCGGC
CATCTTGGAAAAGAGAAAAACAATGGAGTTACTTATTTAAAAAATAAAAAAAAAA

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FIGURE 2030

MELITILEKTVSPDRLELEAAQKFLERA AVENLPTFLVELSRVLANPGNSQVARVAAGLQIKNSLTSKDPDIKAQ
YQQRWLAI DANARREVKNYVLQTLGTETYPSSASQCVAGIACAEIPVNQWPELIPQLVANVTNPNSTEHMKEST
LEAIGYICQDIDPEQLQDKSNEILTAIIQGMRKEEPSNNVKLAATNALLNSLEFTKANFDKESERHFIMQVVCEA
TQCPDTRVRVAALQNLVKIMSLYYQYMETYMGPALFAITIEAMKSDIDEVALQGIEFWSNVCDEEMDLAIEASEA
AEQGRPPEHTSKFYAKGALQYLVPILTQTLTKQDENDDDDWNPCKAAGVCLMLLATCCEDDIVPHVLPFIKEHI
KNPDWRYRDAAVMAFGCILEGPEPSQLKPLVIQAMPTLIELMKDPSVVVRDTAAWTVGRICELLPEAAINDVYLA
PLLQCLIEGLSAEPRVASNVCWAFSSLAEEAAYEADVADDQEEPATYCLSSSFELIVQKLETTDRPDGHQNNLR
SSAYESLMEIVKNSAKDCYPVQKTTLVIMERLQQVLQMESHIQSTSDRIQFNDLQSLLCATLQNVLRKVQHODA
LQISDVVMASLLRMFQSTAGSGGVQEDALMAVSTLVEVLGGEFLKYMEAFKPFLGIGLKNYAEYQVCLAAGVLVG
DLCRALQSNIIPFCDEVMQLLENLGNENVHRSVKPQILSVFGDIALAIGGEFKKYLEVVNLTLQQASQAQVDKS
DYDMVDYLNELRESCLEAYTGIVQGLKGDQENVHPDVMLVQPRVEFILSFIDHIAGDEDHTDGVVACAAGLIGDL
CTAFGKDV LKLVEARPMIHELLTEGRRSKTNKAKTLATWATKELRKLKNQA

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FIGURE 2031

GGGCGTGATTTGAGCCCCGTTTTTATTTTCTGTGAGCCACGTCCTCCTCGAGGGGGTCAATCTGGCCAAAAGGAG
TG**ATCG**CGCTTCGCCTGGACCGTGCTCCTGCTCGGGCCTTTGCAGCTCTGCGCGCTAGTGCACTGCGCCCCCTCCCG
CCGCCGGCCAACAGCAGCCCCCGCGCAGCCGCCGGCGGCTCCGGGCGCCTGGCGCCAGCAGATCCAATGGGAGA
ACAACGGGCAGGTGTTTCTGCTGAGCCTGGGCTCACAGTACCAGCCTCAGCGCCGCCGGGACCCGGGCGCCG
CCGTCCCTGGTGAGCCAACGCCTCCGCCCAGCAGCCCCGCACTCCGATCCTGCTGATCCGCGACAACCGCACCCG
CCGCGGCGCGAACGCGGACGGCCGGCTCATCTGGAGTCAACCGCTGGCCGCCCCAGGCCCCACCGCCCGTCACTGGT
TCCAAGCTGGCTACTCGACATCTAGAGCCCGCGAACGTGGCGCCTCGCGCGCGGAGAACCAGACAGCGCCGGGAG
AAGTTCCTGCGCTCAGTAACCTGCGGCGCCAGCCGCGTGACGGCATGGTGGGCGACGACCCCTTACAACCCCT
ACAAGTACTCTGACGACAACCCTTATTACAATACTACGATACTTATGAAAGGCCAGACCTGGGGGCAGGTACC
GGCCCCGATACGGCACTGGCTACTTCCAGTACGGTCTCCCGAGCCTGGTGGCCGACCCCTACTACATCCAGGCGT
CCACGTACGTGCAGAAGATGTCCATGTACAACCTGAGATGCGCGCGGAGGAAAACCTGTCTGGCCAGTACAGCAT
ACAGGGCAGATGTCAGAGATTATGATCACAGGGTGCTGCTCAGATTTCGCCAAAGAGTGAAAAACCAAGGGACAT
CAGATTTCTTACCCAGCCGACCAAGATATTCCTGGGAATGGCACAGTTGTTCATCAACATTACCACAGTATGGATG
AGTTTAGCCACTATGACCTGCTTGATGCCAACACCCAGAGGAGAGTGGCTGAAGGCCACAAAGCAAGTTTCTGTC
TTGAAGACACATCCTGTGACTATGGCTACCACAGGCGATTTGCATGTACTGCACACACACAGGGATTGAGTCCTG
GCTGTTATGATACCTATGGTGCAGACATAGACTGCCAGTGGATTGATATTACAGATGTAAACCTGGAACTATA
TCCTAAAGGTCAGTGTAACCCAGCTACCTGGTTCTTGAATCTGACTATACCAACAATGTTGTGCGCTGTGACA
TTCGCTACACAGGACATCATGCGTATGCCTCAGGCTGCACAATTTACCGTAT**TAGA**AGGCAAAGCAAACTCCC
AATGGATAAATCAGTGCCTGGTGTCTGAAGTGGGAAAAAATAGACTAACTTCAGTAGGATTTATGTATTTTGAA
AAAGAGAACAGAAAACAACAAAGAATTTTGTGGACTGTTTTCAATAACAAAGCACATACTGGATTTTGAA
CGCTTAAGTCAATCATTACTTGGAATTTXTAATGTTTATTATTACATCAACTTTGTGAATTAACACAGTGTTT
CAATTCGTAAATTCATATTTGACTCTTT

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FIGURE 2032

MRFAWTVLLLGPQLCALVHCAPPAAGQQQPPREPPAAPGAWRQQIQWENNGQVFSLLSLGSQYQPQRRRDPGAA
VPGAANASAAQQPRTPILLIRDNRATAARTTAGSSGVTAGRPRPTARHWFQAGYSTSRARER GASRAENQTAPGE
VPALSNLRPPSRVDGMVGDDPYNPYKYSDDNPYYNYDYERPRPGGRYPGYGTGYFQYGLPDLVADPYYIQAS
TYVQKMSMYNLRCAAEENCLASTAYRADVRD YDHRVLLRFPQRVKNQGTSDFLPSRPRYSWEWHSCHQHYHSMDE
FSHYDLLDANTQRRVAEGHKASFCL EDTSCDYG YHRRFACTAHTQGLSPGCYDTYGADIDCQWIDITDVKPGNYI
LKVSVNPSYLVPESDYTNNVVRCDIRYTGHHAYASGCTISPY

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FIGURE 2033

CAGTCTCAATGGGGGCACTGGGGCTGGAGGGCAGGGGTGGGAGGCTCCAGGGGAGGGGTCCCTCCTGCTAGCTG
TGGCAGGAGCCACTTCTCTGGTGACCTTGTGCTGGCGGTGCCTATCACTGTCTGGCTGTGCTGGCCTTAGTGC
CCCAGGATCAGGGAGGACTGGTAAACGGAGACGGCCGACCCCGGGGCACAGGCCAGCAAGGACTGGGGTTTCAGA
AGCTGCCAGAGGAGGAGCCAGAAACAGATCTCAGCCCCGGGCTCCCAGCTGCCACCTCATAGGCGCTCCGCTGA
AGGGGCAGGGGCTAGGCTGGGAGACGACGAAGGAACAGGCGTTTCTGACGAGCGGGACGCAGTTCTCGGACGCCG
AGGGGCTGGCGCTCCCGCAGGACGGCCTCTATTACCTCTACTGTCTCGTCGGCTACCGGGGCCGGGCGCCCCCTG
GCGGCGGGGACCCCCAGGGCCGCTCGGTACGCTGCGCAGCTCTCTGTACCGGCGGGGGCGCCTACGGGCCGG
GCACTCCCGAGCTGCTGCTCGAGGGCGCCGAGACGGTGACTCCAGTGCTGGACCCGGCCAGGAGACAAGGGTACG
GGCCTCTCTGGTACACGAGCGTGGGGTTTCGGCGGCCTGGTGCAGCTCCGGAGGGGCGAGAGGGTGTACGTCAACA
TCAGTACCCCCGATATGGTGGACTTCGCGAGAGGGAAGACCTTCTTTGGGGCCGTGATGGTGGGGTGAGGGAATA
TGAGTGCGTGGTGCGAGTGCGTGAATATTGGGGGCCCGGACGCCCAGGACCCCATGGCAGTGGGAAAAATGTAGG
AGACTGTTTGAAATTGATTTGAACCTGATGAAAATAAAGAATGGAAAGCTTCAGTGCTGCCGATAAA

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FIGURE 2034

MGALGLEGRGGRLQGRGSLLLAVAGATSLVTLLAVPITVLAVLALVPQDQGGLGFRSCQRRSQKQISAPGSQLP
TS

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FIGURE 2035

CGGCCAGCACACCCCGGCACCTCCTCTGCGGCAGCTGCGCCTCGCAAGCGCAGTGCCGCGAGCGCACGCCGGAGTG
GCTGTAGCTGCCTCGGCGCGGCTGCGGCCCTGCGCGGGCTGTGGGCTGCGGGCTGCGCCCCGCTGCTGGCCAGC
TCTGCACGGCTGCGGGCTCTGCGGCGCCCGGTGCTCTGCAACGCTGCGGCGGGCGGCATGGGATAACGCGGCCAT
GGTGCGCCGAGATCGCCTCCGCAGGATGAGGGAGTGGTGGGTCCAGGTGGGGCTGCTGGCCGTGCCCTTGCTTGC
TGCGTACCTGCACATCCCACCCCTCAGCTCTCCCTGCCCTTCACTCATGGAAGTCTTCAGGCAAGTTTTTCAC
TTACAAGGGACTGCGTATCTTCTACCAAGACTCTGTGGGTGTGGTTGGAAGTCCAGAGATAGTTGTGCTTTTACA
CGGTTTTCCAACATCCAGCTACGACTGGTACAAGATTGGGAAGGGTCTGACCTTGAGGTTTTATCGGGTGATTGC
CCTTGATTTCTTAGGCTTTGGCTTCAGTGACAAACCGAGACCACATCACTATTCCATATTTGAGCAGGCCAGCAT
CGTGAAGCGCTTTTGGCGCATCTGGGGCTCCAGAACCGCAGAATCAACCTTCTTCTCATGACTATGGAGATAT
TGTGCTCAGGAGCTTCTCTACAGGTACAAGCAGAATCGATCTGGTCCGCATACCATAAAGAGTCTCTGTCTGTC
AAATGGAGGTATCTTCTGAGACTCACCCTCCACTCCTTCTCCAAAAGCTACTCAAAGATGGAGGTGTGCTGTC
ACCCATCCTCACACGACTGATGAACCTTCTTGTATTCTCTCGAGGTCTCACCCAGTCTTTGGGCCGTATACTCG
GCCCTCTGAGAGTGAGCTGTGGGACATGTGGGACAGGATCCGCAACAATGACGGGAACCTTAGTCATTGACAGTCT
CTTACAGTACATCAATCAGAGGAAGAAGTTCAGAAGGCGCTGGGTGGGAGCTCTTGCCCTCTGTAACATATCCCAT
TCATTTTATCTATGGGCCATTGGATCCTGTAAATCCCTATCCAGAGTTTTTGGAGCTGTACAGGAAAACGCTGCC
GCGGTCCACAGTGTGATTCTGGATGACCACATTAGCCACTATCCACAGCTAGAGGATCCCATGGGCTTCTTGAA
TGCAATATATGGGCTTCATCACTCCTTCTTGAGCTGGAAAGAGTAGCTTCCCTGTATTACCTCCCCTACTCCCTTA
TGTGTTGTGTATTCCACTTAGGAAGAAATGCCAAAAGAGGTCTGGCCATCAAACATAATTCTCTCACAAAGTC
CACTTTTACTCAAATTGGTGAACAGTGTATAGGAAGAAGCCAGCAGGAGCTCTGACTAAGGTTGACATAATAGTCC
ACCTCCCATTACTTTGATATCTGATCAAATGTATAGACTTGGCTTTGTTTTTGTGCTATTAGGAAATTCTGATG
AGCATTACTATTCAGTATGCAGAAAGACGTTCTTTTGCAATAAAGACTTTTTTTTAACTTTGGACTTCTCTG
AAATATTTAGAAAGTGCTAATTTCTGGCCACCCCCAACAGGAATTCTATAGTAAGGAGGAGGAGAAGGGGGGCTC
CTTCCCTCTCCTCGAATGACGTTATGGGCACATGCCTTTTAAAGTTCTTTAAGCAACACAGAGCTGAGTCTCT
TTGTCATACCTTTGGATTTAGTGTTCATCAGCTGTTTTTAGTTATAAACATTTGTTAAATAGATATTGGTTT
AAATGATACAGTATTTTAGGTATGATTTAAGACTATGATTTACCTATACATTATATATATTTTATAAAGATACTA
AACCAGCATACCTTACTCTGCCAGAGTAGTGAAGCTAATTAACACGTTTGGTTTTCTGAATAAATTGAACTAAA
TCCAAACTATTTCTAAATACAGGACATTAAGGACCAATAGCATCTGTGCCAGAGATGTACTGTTATTAGCTG
GGAAGACCAATTCTAACAGCAAATAACAGTCTGAGACTCCTCATACCTCAGTGGTTAGAAGCATGTCTCTCTGA
GCTACAGTAGAGGGGAAGGGATTGTTGTGTAGTCAAGTCACCATGCTGAATGTACACTGATTCCTTTATGATGAC
TGCTTAACTCCCCACTGCCTGTCCCAGAGAGGCTTTCCAATGTAGCTCAGTAATTCCTGTTACTTTACAGACAGG
AAAGTTCCAGAACTTTAAGAACAACTCTGAAAGACCTATGAGCAAATGGTGTGAATACTTTTTTTTTAAAGC
CACATTTTATTGCTTAGTCAAAGCAGGATTATTAAGTGATTATTTAAATTCGTTTTTTTTAAATTAGCAACTTC
AAGTATAACAACCTTTGAACTGGAATAAGTGTTATTTTCTATTATAAATAAATGAATTGTGACAAAAAAAACC
G

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FIGURE 2036

MVRRDRLRRMREWWVQVGLLAVPLLAAYLHIPPPQLSPALHSWKSSGKFFTYKGLRIFYQDSVGVVGSPEIVVLL
HGFTSSYDWKIWKGLTLRFHRVIALDFLGFGFSKPRPHYSIFEQASIVEALLRHLGLQNRINLLSHDYGD
IVAQELLYRYKQNRSGRHTIKSLCLSNGGIFPETHRPLLQKLLKDGGVLSPILTRLMNFFVFSRGLTPVFGPYT
RPESELWDMWAGIRNNDGNLVIDSLLQYINQRKKFRRRWVGALASVTIPIHFIYGPLDPVNPYPEFLELYRCTL
PRSTVSILDDHISHYPQLEDPMGFLNAYMGFINSF

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FIGURE 2037

GAGGCGCCAGGATCAGTCGGGGCACCCGACGCGAGGCTGCCACCCACCTGGGCGACCTCCGCGGCGGGCGGGC
GGCGGCTGGGTAGAGTCAGGGCCGGGGGCGCACGCCGGAACACCTGGGCGCGGGCACCGAGCGTCGGGGGGCT
GCGCGGCGCGACCCCTGGAGAGGGCGCAGCCGATGCGGGCGGCGGCGGCGGGGGCGTGCAGACGGCCGCGCT
GGCGCTGCTGCTGGGGGCGCTGCACTGGGCGCGCGCGCTGCGAGGAGTACGACTACTATGGCTGGCAGGCCGA
GCCGCTGCACGGCCGCTCCTACTCCAAGCCGCCGAGTGCCTTGACATCCCTGCCGACCTGCCGCTCTGCCACAC
GGTGGGCTACAAGCGCATGCGGCTGCCAACCTGCTGGAGCACGAGAGCCTGGCCGAAGTGAAGCAGCAGGCGAG
CAGCTGGCTGCCGCTGCTGGCCAAGCGCTGCCACTCGGATACGACAGGTCTTCCTGTGCTCGCTCTTTGCGCCCGT
CTGCTCGACCGGCCCATCTACCCGTGCCGCTCGCTGTGCGAGGCCGTGCGCGCCGGCTGCGCGCCGCTCATGGA
GGCCTACGGCTTCCCTGGCCTGAGATGCTGCACTGCCACAAGTTCCCCCTGGACAACGACCTCTGCATCGCCGT
GCAGTTCGGGCACCTGCCCCGCCACCGCGCTCCAGTGACCAAGATCTGCGCCAGTGTGAGATGGAGCACAGTGC
TGACGGCCTCATGGAGCAGATGTGCTCCAGTGACTTTGTGGTCAAAATGCGCATCAAGGAGATCAAGATAGAGAA
TGGGGACCGGAAGCTGATTGGAGCCCAGAAAAGAAGCTGCTCAAGCCGGGCCCCCTGAAGCGCAAGGACAC
CAAGCGGCTGGTGTGCACATGAAGAATGGCGCGGGCTGCCCTGCCACAGCTGGACAGCCTGGCGGGCAGCTT
CCTGGTCATGGGCGCAAAGTGGATGGACAGCTGCTGCTCATGGCCGTCTACCGCTGGGACAAGAAGAATAAGGA
GATGAAGTTTGAGTCAAATTCATGTTCTCCTACCCCTGCTCCCTCTACTACCCTTTCTTCTACGGGGCGGCAGA
GCCCCACTGAAGGGCACTCCTCCTTGCCCTGCCAGCTGTGCCTTGCTTGCCCTCTGGCCCCGCCCAACTTCCAG
GCTGACCCGGCCCTACTGGAGGGTGTTTTACGAATGTTGTTACTGGCACAAGGCCCTAAGGGATGGGCACGGAGC
CCAGGCTGTCTTTTTGACCCAGGGGTCTGGGGTCCCTGGGATGTTGGGCTTCCTCTCTCAGGAGCAGGGCTTC
TTCATCTGGGTGAAGACCTCAGGGTCTCAGAAAGTAGGCAGGGGAGGAGAGGGTAAGGGAAAGGTGGAGGGGCTC
AGGGCACCCCTGAGGCGGAGGTTTCAGAGTAGAAGGTGATGTGAGCTCCAGCTCCCCCTCTGTGCGGTGGTGGGGCT
CACCTTGAAGAGGGAAGTCTCAATATTAGGCTAAGCTATTTGGGAAAGTTCTCCCCACCGCCCTGTACGCGTCA
TCCTAGCCCCCTTAGGAAAGGAGTTAGGGTCTCAGTGCTCCAGCCACACCCCTGCCTTCCCCAGCTTGCCCA
TTTCCCTGCCCCAAGGCCAGAGCTCCCCCAGACTGGAGAGCAAGCCCAGCCAGCCTCGGCATAGACCCCTT
CTGGTCCGCGCGTGGCTCGATTCCCGGGATTCTTCTCAGCCTCTGCTTCTCCCTTTTATCCCAATAAGTTATT
GCTACTGCTGTGAGGCCATAGGTACTAGACAACCAATACATGCAGGGTTGGGTTTTCTAATTTTTTAACTTTTT
AATTAAATCAAAGGTGACGCGCGGCCGCG

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FIGURE 2038

MRAAAAAGGVRTAALALLGALHWAPARCEEYDYYGWQAEPLHGRSYSKPPQCLDIPADLPLCHTVGYKRMRLPN
LLEHESLAEVKQQASSWLPLLAKRCHSDTQVFLCSLFAPVCLDRPIYPCRSCEAVRAGCAPLMEAYGFPWPEML
HCHKFPDNDLCIAVQFGHLPATAPPVTKICAQCEMEHSADGLMEQMCSSDFVVKMRIKEIKIENGDRKLIGAQK
KKKLLKPGPLKRKDTKRLLVLMKNGAGCPCPQLDSLGSFLVMGRKVDGQLLLMAVYRWDKKNKEMKFAVKFMFS
YPCSLYYPFFYGAAEPH

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FIGURE 2039

TGCGACGTGACTGGCTAGCTGCGTGGGTACTGGAACAAGCAAACGAGGCAGCGAGCGAAGGACGGGAGCCGGACC
CTGGGCCCCGTGGAATCCAGCCTGCGCCACCACGTACGCACACGCTCGGCGCTGCGATCCGCGCATATAACGA
TATTTGGATTTGACCTGCATTTTGAATTTATCTACACTTAAATGCCACCAGCAGTTGGAGGTCCAGTTGGATA
CACCCCCCAGATGGAGGCTGGGGCTGGGCAGTGGTAATTGGAGCTTTCATTTCCATCGGCTTCTCTTATGCATT
TCCCAAATCAATTACTGTCTTCTCAAAGAGATTGAAGGTATATTCCATGCCACCACCAGCGAAGTGTCTATGGAT
ATCCTCCATAATGTTGGCTGTCTATGGTGGAGGTCTATCAGCAGTATCCTGGTGAATAAATATGGAAGTCG
TATAGTCATGATTGTTGGTGGCTGCTTGTTCAGGCTGTGGCTTGATTGCAGCTTCTTTCTGTAACACCGTACAGCA
ACTATACGTCTGTATTGGAGTCATTGGAGGTCTTGGGCTTGCCCTTCAACTGAAATCCAGCTCTGACCATGATTGG
CAAGTATTTCTACAAGAGGCGACCATTGGCCCAACGGACTGGCCATGGCAGGCAGCCCTGTGTTCTCTGTACTCT
GGCCCCCTCAATCAGTTTTCTTCGGTATCTTTGGATGGAGAGGAAGCTTCTAATTCTTGGGGGCTTGCTACT
AAACTGCTGTGTTGCTGGAGCCCTCATGCGACCAATCGGGCCCAAGCCAACCAAGGCAGGGAAGATAAGTCTAA
AGCATCCCTTGAGAAAGCTGGAATACTGGTGTGAAAAAGATCTGCATGATGCAATACAGATCTTATTGGAAG
ACACCCTAAACAAGAGAAACGATCAGTCTTCCAAACAATTATCAGTTCCTGGACTTAACCCATTACCCACAG
AGGCTTTTTGCTATACCTCTCTGGAATGTGATCATGTTTTTGGACTCTTTCACCTTTGGTGTCTTCTAGTAG
TTATGGGAAGAGTCAGCATTATTCTAGTGAGAAGTCTGCCTTCTTCTTCCATTCTGGCTTTTGTGACATGGT
AGCCCGACCATCTATGGGACTTGTAGCCAAACAAAGCCAATAAGACCTCGAATTCAGTATTTCTTGGCGCTTC
CGTTGTTGCAATGGAGTGTCTATATGCTAGCACCTTTATCCACTACCTATGTTGGATTCTGTGCTATGCGGG
ATTCTTTGGATTTGCCTTCGGGTGGCTCAGCTCCGTATTGTTTGAACATTGATGGACCTTGTGGACCCAGAG
GTTCTCCAGCGCTGTGGGATTGGTGGACATTGTGGAATGCTGTCTGTCTCCTGGGGCCACCCTTTAGGTGCG
GCTCAATGACATGTATGGAGACTACAAATACACATACTGGGCATGTGGCGTCTCCTAATTATTTAGGTATCTA
TCTCTTCATTGGCATGGGCATCAATTATCGACTTTTGGCAAAAGAACAGAAAGCAAACGAGCAGAAAAAGGAAAG
TAAAGAGGAAGAGACCAGTATAGATGTTGCTGGGAAGCCAAATGAAGTTACCAAAGCAGCAGAAATCTCCGGACCA
GAAAGACACAGAAGGAGGGCCCAAGGAGGAGGAAAGTCCAGTCTGAATCCATGGGGCTGAAGGGTAAATTGAGCA
GTTTCATGACCCAGGATATCTGAAAATATTCTACTGGCCTGTAATCTACCAGTGGTGTCTCAATGCAATAGTAGAC
ATTTGTGTGGAATCATACACAGTTGTTTCATTGATGGGATTTTGTGTTGACTCCTTACCAATAGCCTGAATTTGAG
GAGGGAATGATTGGTAGCAAGGATGGGGGAAAGAAGTAGGTTCTGTTTTGTTTTGTTTTAATCTTAGCTTTTAA
TAGTGTCTATAAGATTATAATATGTGCCTTAAGTTTTAGTCTTTAGAACTCTAGAGAGCCTTAACCTCTTAAACC
ATTTTTGCTGAATTCATCTATTTTCGAGTGTGTGTTAAAAGGAAAAATAACAATACTTGTGTTGAGGCAATCT
AAAAATTTAAATTAATCTTGCTTCATTGTTACATGTAATATATTTTCAGACATTTTCTACTGGAAGATTTATGAACA
GAAATATTGGTTGAAAGTTAGAGATTTTACAAAATGCTGACAAAAATATTTCTTAGCATCAGTAGATTCTGGC
ATATGTTTTCTGCTAGCTATATATTTAGGAAATTCAAAGCATAAACTTTGGCAACATCTGGCTGTTCTAGACAC
AGTGTACTTGTCAACCCCTCTCAGGTACCTTTTCTTGGGATGCTTATTAGAAGCCAAGTAAAGTGCTTAAGGTTT
GTTTTTCATTAAATTAGCTATTTCTGCTCCCCTGTTCAAAGATGCATTTTGAGTGTGTTATAGATCACTGCCCTTT
TGAAATCACCTGGTATTATTTTCTTACTGGAAAAGTTAGTATTAAATCTACAGAACTACATATTTGTGCCTCC
TTGGTAAATACAACACATCTAATTAAATGTAGACAGATATTTCAAACATCAGCTGAATTCACTTAAGTTTTTCCA
AAACCTCAGTTAAACTGTGAAGCTATTGGAATTTTTTTTCTGGAATTTTCCCCTTTGATTACAGTGGTCCC
ATTTATATCTGCTTCTAGCTTAGTGCTATGTGTGAGATATGTGTGTTTTGGTGTTTTTGTTTTTTTTTTTT
TTTTTTAAGGTTTGCAATTAAGAGGGCCAGAAAAATTTGGCACCAGGCAAACGAATAAGATAGGATTGGGAA
AGAAGTTGCTAAGTGTGCTTAGTTTTAATAAGTAATCTCTCTTTTTTTCAGAGAAGGCCTTACAGAAAATTGT
TGTGCTTAGAATTGCTGGATGCATTTTTACCCTCCACACAAACCTAAAAATTTGTGACCCCTTTCACTTACCTG
AAAAGTAGAGAAATGGATTGAGTATAAGGATAAGGAGGGAAGGTGGACCAGAAATGAAAAGTAAATATTTTTT
AACCTAATATCACTTAAATCGAGGCAGAAAGATATAGACATTCAATGAATTATTTCAATGCATTTAAATACCA
CTGTAATTGACAGAGTAAAGTATAGATACAAACCTTGTGTAAGAGGCTGACTTTTCCAAATAAACATTTTTTA
AGAAAACATTTCTTCTCCCAATGTCTATTTCTTGAGGAAAAATTGCTGTGCTTTCATTTTCATTACCAGGTT
TCATTTTGGGCTTGCTAAATTGATTGAATTAAATCCTCCAGCTTTTGAACCTTGAAAAAAGAAAAAAGAAAAA
AAAAAAGAAAAAAGAAAAAAGAAAAAAG

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FIGURE 2040

MPPAVGGPVGYTTPDGGGWAVVIGAFISIGFSYAFPKSITVFFKEIEGIFHATTSEVSWISSIMLAVMYGGGP I
SSILVNKYGSRIVMIVGGCLSGCGLIAASF CNTVQQLYVCIGVIGGLGLAFNLPALTMIGKYFYKRRPLANGLA
MAGSPVFLCTLAPLNQVFFGIFGWRGSFLILGGLLLNCCVAGALMRPIGPKPTKAGKDKSKASLEKAGKSGVKKD
LHDANTDLIGRHPKQEKRSVFQTINQFLDLTLFTHRGLLYLSGNVIMFFGLEAPLVFLSSYGKSQHYSEKSAF
LLSILAFVDMVARPSMGLVANTKPIRPRIQYFFAASVVANGVCHMLAPLSTTYVGFCVYAGFFGFAFGWLSSVLF
ETLMDLVGPQRFSSAVGLVTIVECCPVLLGPPLLGRNLNDMYGDYKYTYWACGVVLIISGIYLFIMGINRYRLAK
EQKANEQKESKEEETSIDVAGKPNEVTKAESPDKDTEGGPKEEESPV

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FIGURE 2041

GGCACGAGGAGGAAGAGCCGCGGGCCCGCGGCTGAGGCCACCCCGGCGCGGCTGGAGAGCGAGGAGGAGCGGG
TGGCCCCGCGCTGCGCCCCCCTCGCCTCACCTGGCGCAGGTGGACACCTGCGCAGGTGTGTGCCCTCCGGCCCC
TGAAGCATGCCAGCAGCGGCATGGCTGACAGCGCCAACCACCTGCCCTTCTTTTTCGGCAACATCACCCGGGAG
GAGGCAGAAGATTACCTGGTCCAGGGGGGCATGAGTGATGGGCTTTATTTGCTGCGCCAGAGCCGCAACTACCTG
GGTGGCTTCGCCCTGTCCGTGGCCACGGGAGGAAGGCACACCACTACACCATCGAGCGGGAGCTGAATGGCACC
TACGCCATCGCCGGTGGCAGGACCCATGCCAGCCCCGCCGACCTCTGCCACTACCACTCCCAGGAGTCTGATGGC
CTGGTCTGCCTCCTCAAGAAGCCCTTCAACCGGCCCAAGGGGTGCAGCCCAAGACTGGGCCCTTTGAGGATTTG
AAGGAAAACCTCATCAGGGAATATGTGAAGCAGACATGGAACCTGCAGGGTCAGGCTCTGGAGCAGGCCATCATC
AGTCAGAAGCCTCAGCTGGAGAAGCTGATCGCTACCACAGCCCATGAAAAATGCCTTGGTTCCATGGAAAAATC
TCTCGGGAAGAATCTGAGCAAATTTGCTCTGATAGGATCAAAGACAAATGGAAAGTTTCTGATCCGAGCCAGAGAC
AACAACGGCTCCTACGCCCTGTGCCTGTGCACGAAGGGAAGGTGCTGCACCTATCGCATCGACAAAGACAAGACA
GGGAAGCTCTCCATCCCCGAGGGAAGAAGTTGCACACGCTCTGGCAGCTAGTCGAGCATTATTCTTATAAAGCA
GATGGTTTGTAAAGAGTTCTTACTGTCCCATGTCAAAAAATCGGCACACAGGGAAATGTTAATTTTGGAGGCCGT
CCACAATCTCCAGGTTCCCATCCTGCGACTTGGTTCAGCGGTGGAATAATCTCAAGAATCAAATCATACTCCTTC
CCAAAGCCTGGCCACAGAAAGTCTCCTCCCTGCCCAAGGGAACCGGCAAGAGAGTACTGTGTCAATCAATCCGTAT
GAGCCAGAACCTTGCACCTTGGGCTGCAGACAAAGGCCCCAGAGAGAAGCCCTACCCATGGACACAGAGGTGTAC
GAGAGCCCCCTACGCGGACCTGAGGAGATCAGGCCCAAGGAGGTTTACCTGGACCGAAAGCTGCTGACGCTGGAA
GACAAAGAATCTGGGCTCTGGTAATTTTGGAACTGTGAAAAAGGGCTACTACCAAATGAAAAAGTTGTGAAAACC
GTGGCTGTGAAAAACTGAAAAACGAGGCCAATGACCCCGCTCTTAAAGATGAGTTATTAGCAGAAGCAAATGTC
ATGCAGCAGCTGGACAACCCGTACATCGTGCATGATCGGGATATGCGAGGCCGAGTCTGGATGCTAGTTATG
GAGATGGCAGAACTTGGTCCCCCAATAAGTATTTGCAGCAGAACAGACATGTCAAGGATAAGAACAATCATAGAA
CTGGTTTCATCAGGTTTCCATGGGCATGAAGTACTTGGAGGAGAGCAATTTTGTGCACAGAGATCTGGCTGCAAGA
AATGTGTTGCTAGTTACCCAACATTATGCCAAGATCAGTGATTTCCGACTCTCCAAAGCACTGCGTGCTGATGAA
AACTACTACAAGGCCAGACCCATGGAAAGTGGCCTGTCAAGTGGTACGCTCCGGAATGCATCAACTACTACAAG
TTCTCCAGCAAAAGCGATGTCTGGAGCTTTGGAGTGTGATGTGGGAAGCATTCTCCTATGGGCAGAAGCCATAT
CGAGGGATGAAAGGAAGTGAAGTCACCGCTATGTTAGAGAAAGGAGAGCGGATGGGGTGCCCTGCAGGGTGTCCA
AGAGAGATGTACGATCTCATGAATCTGTGCTGGACATACGATGTGGAAAACAGGCCCGGATTTCGACGAGTGGA
CTGCGGCTGCGCAATTACTACTATGACGTGGTGAACTAACCGCTCCCGCACCTGTGCGTGGCTGCCTTTGATCAC
AGGAGCAATCACAGGAAAATGTATCCAGAGGAATTGATTGTGAGCCACCTCCCTCTGCCAGTCGGGAGAGCCAGG
CTTGATGGAACATGCCACAACCTTGTACCCAAAGCCTGTCCAGGACTCACCTCCACAAAGCAAAGGCAGTC
CCGGGAGAAAAGACGGATGGCAGGATCCAAGGGGCTAGCTGGATTTGTTTGTCTTGTCTGTGATTTTCAT
ACAGGTTATTTTTACGATCTGTTTCCAAATCCCTTTTCATGTCTTTCCACTTCTCTGGGTCCCGGGGTGCATTTGT
TACTCATCGGGCCCAGGGACATTGCAGAGTGGCCTAGAGCACTCTACCCCAAGCGGCCTTTTCCAAATGCCCAA
GGATGCCTTAGCATGTGACTCCTGAAGGGAAGGCAAAGGCAGAGGAATTTGGCTGCTTCTACGCCATGAGACTG
ATCCCTGGCCACTGAAAAGCTTTCTGACAATAAAAAATGTTTGGAGCTTTAAAAAGAAAATCAAGTTTGACCAG
TGCAGTTTCTAAGCATGTAGCCAGTTAAGGAAAGAAAGAAAAAAAAAAAAAAAAAAAA

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FIGURE 2042

MASSGMADSANHLPFFFGNITREEAEDYLVQGGMSDGLYLLRQSRNYLGGFALSVAHGRKAHHYTIERELNGTYA
IAGGRTHASPADLCHYHSQESDGLVCLLKPPFNRPQGVQPKTGPFEDLKENLIREYVKQTWNLQGQALEQAIISQ
KPQLEKLIATTAHEKMPWFHKGISREESEQIVLIGSKTNGKFLIRARDNNGSYALCLLHEGKVLHYRIDKDKTGK
LSIPEGKKFDTLWQIVEHYSYKADGLLRVLTVPCQKIGTQGNVNFGGRPQLPGSHPATWSAGGIISRIKSYSFPK
PGHRKSSPAQGNRQESTVSFNPYEPELAPWAADKGPQREALPMDTEVYESPYADPEEIRPKEVYLDKLLTLEDK
ELGSGNFGTVKKGYQMKKVKTAVKILKNEANDPALKDELLAEANVMQQLDNPYIVRMIGICEAESWMLVMEM
AELGPLNKYLQQRHVVDKNI IELVHQVSMGMKYLEESNFVHRDLAARNVLLVTQHYAKISDFGLSKALRADENY
YKAQTHGKWPVKWYAPECINYYKFSSKSDVWSFGVLMWEAFSYGQKPYRGMKGSEVTAMLEKGERMGCPAGCPRE
MYDLMNLCWTYDVENRPGFAAVELRLRNYYYDVVN

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FIGURE 2043A

CAAATGCGAACTTAGGCTGTTACACAACCTGCTGGGGTCTGTTCTCGCGCGCCGCGCCGCGCAGTCAGGCAGCGTCGC
CGCCGTGGTAGCAGCCTCAGCCGTTTCTGGAGTCTCGGGCCACAGTCACCGCCGCTTACCTGCGCCTCCTCGAG
CCTCCGGAGTCCCGTCCGCGCCGACAGGCCGGTTGCGCGTCTGCGTCTCCCCACGCCGCTCGCCTGCCGCCG
CGCTCGTCCCTCCGGGCCGACATGAGTGGGGACCACCTCCACAACGATTCCAGATCGAAGCGGATTTCCGATTG
AATGATTCTCATAAACACAAAGATAAACACAAAGATCGAGAACACCGGCACAAAGAACACAAGAAGGAGAAGGAC
CGGGAAAAGTCCAAGCATAGCAACAGTGAACATAAAGATTCTGAAAAGAAACACAAGAGAAGGAGAAGACCAAA
CACAAAGATGGAAGCTCAGAAAAGCATAAAGACAAACATAAAGACAGAGACAAGGAAAAACGAAAAGAGGAAAAAG
GTTGAGCCTCTGGGGATGCAAAAAATAAGAAGGAGAAGGAAAAATGGCTTCTCTAGTCCACCACAAATTAAAGAT
GAACCTGAAGATGATGGCTATTTTGTTCCTCCTAAAGAGGATATAAAGCCATTAAAGAGACCTCGAGATGAGGAT
GATGCTGATTATAAACCTAAGAAAAATTAAACAGAAGATACCAAGAAGGAGAAGAAAAAGAAACTAGAAGAAGAA
GAGGATGGTAAATTGAAAAAACCAAGAATAAAGATAAAGATAAAAAAGTTCTGAGCCAGATAACAAGAAAAAG
AAGCCGAAGAAAGAAGAGGAACAGAAGTGGAAATGGTGGGAAGAAGAGCGCTATCCTGAAGGCATCAAGTGGAAA
TTCCTAGAACATAAAGGTCCAGTATTTGCCCCACCATATGAGCCTCTTCCAGAGAATGTCAAGTTTTATTATGAT
GGTAAAGTCATGAAGCTGAGCCCCAAAGCAGAGGAAGTAGCTACGTTCTTTGCAAAAAATGCTCGACCATGAATAT
ACTACCAAGGAAATATTTAGGAAAAATTTCTTTAAAGACTGGAGAAAGGAAATGACTAATGAAGAGAAGAATATT
ATCACCAACCTAAGCAAATGTGATTTTACCCAGATGAGCCAGTATTTCAAAGCCCAGACGGAAGCTCGGAAACAG
ATGAGCAAGGAAGAGAACTGAAAATCAAAGAGGAGAATGAAAAATTACTGAAAGAATATGGATTCTGTATTATG
GATAACCACAAAGAGAGGATTGCTAACTTCAAGATAGAGCCTCCTGGACTTTTCCGTGGCCGCGGCAACCAACCC
AAGATGGGCATGCTGAAGAGACGAATCATGCCGAGGATATAATCATCAACTGTAGCAAAGATGCCAAGGTTCTCT
TCTCCTCCTCAGGACATAAGTGGAAAGAAGTCCGGCATGATAACAAGGTTACTTGGCTGGTTTCTGGACAGAG
AACATCCAAGGTTCCATTAAATACATCATGCTTAACCTAGTTTACGAATCAAGGGTGAGAAGGACTGGCAGAAA
TACGAGACTGCTCGGCGGCTGAAAAATGTGTGACAAGATCCGGAACCAAGTATCGAGAAGACTGGAAGTCCAAA
GAGATGAAAGTCCGGCAGAGAGCTGTAGCCCTGTACTTCATCGACAAGCTTGCTCTGAGAGCAGGCAATGAAAAG
GAGGAAGGAGAAACAGCGGACACTGTGGGCTGCTGCTCACTTCGTGTGGAGCACATCAATCTACACCCAGAGTTG
GATGGTCAGGAATATGTGGTAGAGTTTGACTTCTCGGGAAGGACTCCATCAGATACTATAACAAGGTCCTGT
GAGAAACGAGTTTTTAAGAACCTACAATATTTATGGAGAACAAGCAGCCCGAGGATGATCTTTTTGATAGACTC
AATACTGGTATTCTGAATAAGCATCTTCAGGATCTCATGGAGGGCTTGACAGCCAAGGTATTCGGTACATACAAT
GCCTCCATCAGCTACAGCAGCAGCTAAAAGAACTGACAGCCCCGGATGAGAACATCCAGCGAAGATCCTTTCT
TATAACCGTGCCAATCGAGCTGTGCAATTTCTTTGTAACCATCAGAGGGCACCACCAAAACTTTTTGAGAAGTCT
ATGATGAAGTTGCAAACTAAGATTGATGCCAAGAAGGAACAGCTAGCAGATGCCCGGAGAGACCTGAAAAGTGCT
AAGGCTGATGCCAAGGTATGAAGGATGCAAAGACGAAGAAGGTAGTAGAGTCAAAGAAGAAGGCTGTTACAGAGA
CTGGAGGAACAGTTGATGAAGCTGGAAGTTCAAGCCACAGACCGAGAGGAAAATAAACAGATTGCCCTGGGAACC
TCCAAACTCAATTATCTGGACCCTAGGATCACAGTGGCTTGGTGAAGAAGTGGGGTGTCCCAATTGAGAAGATT
TACAACAAAACCCAGCGGGAGAAAGTTTGCCTGGGCCATTGACATGGCTGATGAAGACTATGAGTTTTAGCCAGTC
TCAAGAGGCAGAGTTCTGTGAAGAGGAACAGTGTGGTTTGGGAAAGATGGATAAACTGAGCCTCACTTGCCCTCG
TGCCTGGGGGAGAGAGGCAGCAAGTCTTAACAAACCAACATCTTTGCGAAAAGATAAACCTGGAGATATTATAAG
GGAGAGCTGAGCCAGTTGTCTATGGACAACCTATTTAAAAATATTTTCAGATATCAAAATTCTAGCTGTATGATT
TGTTTTGAATTTTGTTTTTATTTTCAAGAGGGCAAGTGGATGGGAATTTGTGAGCGTTCTACCAGGCAATTCAC
TGTTTTCACTGAAATGTTTGGATTCTCTTAGCTACTGTATGCAAAGTCCGATTATATTGGTGCCTTTTTACAGTTA
GGGTTTTGCAATAACTTCTATATTTTAATAGAAATAAATTCCTAAACTCCCTTCCCTCTCTCCATTTCAGGAAT
TTAAATTAAGTAGAACAAAAAACCCAGCGCACCTGTTAGAGTCGTCACCTCTCTATTGTGATGGGGATCAATTTT
CATTAACTTGAAGCAGTCGTGGCTTTGGCAGTGTTTGGTTTCTAGACACCTGTTTCAGAAAAAGCATGATGGGA
AAATATTTCTGACTTGAGTGTTCCTTTTTTAAATGTGAATTTTATTTCTTTTTAATTATTTTAAAAATTTTAAA
CCTTTTTCTTGATCTTAAAGATCGTGTAGATTGGGGTTGGGGAGGGATGAAGGGCGAGTGAATCTAAGGATAATG
AAATAATCAGTGAAGCAATTTTCCATCATCTTTGTTCTGAGCATTGCTGTACCCCTTTAAGATATCCAT
CTTTTTCTTTTAAACCTAATCTTTCACTTGAAGATTTTATTGTATAAAAAGTTTCACAGGTCAATAACTTAG
AGGAAAATGAGTATTTGGTCCAAAAAAGGAAAAATAATCAAGATTTTAGGGCTTTTATTTTTCTTTTGTAATT
GTGTAAAAAATGGAAAAAACATAAAAAGCAGAATTTTAAATGTGAAGACATTTTTTGCTATAATCATTAGTTTTA

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FIGURE 2043B

GAGGCATTGTTAGTTTAGTGIGTGTGCAGAGTCCATTTCCCACATCTTTCCTCAAGTATCTTCTATTTTTATCAT
GAATCCCTTTTAATCAACTGTAGGTTATTTAAAATAAATTCCTACAACCTAATGGAAA

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FIGURE 2044

MSGDHLHND\$QIEADFRLND\$HKKHDKHKDREHRHKEHKKKEDREKSKHSNSEHKDSEKXHKEKEKTKHKDGSSE
KHKDKHKDRDKEKRKEEKVRASGDAKIKKEKENGFSPPQIKDEPEDDGYFVPPKEDIKPLKRPRDEDDADYKPK
KIKTEDTKKEKKRKLEEEEDGKLKKPKNKDKDKKVPEDNKKKKPKKEEQKWKWWEERYPEGIKWKFLHKG
VFAPPYEPLPENVKFYDGVKMLSPKAEVATFFAKMLDHEYTTKEIFRKNFFKDWRKEMTNEEKNIITNLSK
DFTQMSQYFKAQTEARKQMSKEEKLKIKEENEKLLKEYGFCIMDNHKERIANFKIEPPGLFRGRGNHPKMGMLKR
RIMPEDIIINCSKDAKVPSPPPGHKWKEVRHDNKVTLVSWTENIQGSIKYIMLNPSSRIKGEKDWQKYETARRL
KKCVDKIRNQYREDWKSKEKVRQRAVALYFIDKLALRAGNEKEEGETADTVGCCSLRVEHINLHPELDGQYV
EFDFLGKDSIRYYNKVPVEKRVFKNLQLFMENKQPEDDLFDRLNTGILNKHLDLMEGLTAKVFTYNASITLQ
QLKELTAPDENIPAKILSYNRANRAVAILCNHQRAPPKTFEKSMMNLQTKIDAKKEQLADARRDLKSAKADAKVM
KDAKTKKVVESKKKAVQRLQMKLEVQATDREENKQIALGTSKLNLYLDPRTVAWCKKWGVPIEKIYNKTQRE
KFAWAIDMADEYEF

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FIGURE 2045

GGAATTCCGTGGCCAGGATGCTGAGCCTGCTGCTGCTGGCGCTGCCCGTCCCTGGCGAGCCGCGCCTACGCGGCCC
CTGCCCCAGTCCAGGCCCTGCAGCAAGCGGGTATCGTCGGGGGTCAGGAGGCCCCCAGGAGCAAGTGGCCCTGGC
AGGTGAGCCTGAGAGTCCGCGACCGATACTGGATGCACTTCTGCGGGGGCTCCCTCATCCACCCCAAGTGGGTGC
TGACCGCGGCGCACTGCCTGGGACCGGACGTCAAGGATCTGGCCACCCTCAGGGTGCAACTGCGGGAGCAGCACC
TCTACTACCAGGACCAGCTGCTGCCAGTCAGCAGGATCATCGTGCACCCACAGTTCTACATCATCCAGACTGGAG
CGGATATCGCCCTGCTGGAGCTGGAGGAGCCCGTGAACATCTCCAGCCGCGTCCACACGGTCATGCTGCCCCCTG
CCTCGGAGACCTTCCCCCGGGGATGCCGTGCTGGGTCACTGGCTGGGGCGATGTGGACAATGATGAGCCCCTCC
CACCGCCATTTCCCTGAAGCAGGTGAAGTCCCCATAATGGAAAACCACATTTGTGACGCAAAATACCACCTTG
GCGCCTACACGGGAGACGACGTCCGCATCATCCGTGACGACATGCTGTGTGCCGGGAACAGCCAGAGGGACTCCT
GCAAGGGCGACTCTGGAGGGCCCCTGGTGTGCAAGGTGAATGGCACCTGGCTACAGGCGGGCGTGGTCAGCTGGG
ACGAGGGCTGTGCCAGCCCAACCGGCCTGGCATCTACACCCGTGTACCTACTACTTGGACTGGATCCACCACT
ATGTCCCCAAAAGCCGTGAGTCAGGCCTGGGTGTGCCACCTGGGTCACTGGAGGACCAACCCCTGCTGTCCAAA
ACACCACTGCTTCTTACCCAGGTGGCGACTGCCCCCACACCTTCCCTGCCCCGTCTGAGTGCCCCCTTCCCTGT
CTAAGCCCCCTGCTCTCTTCTGAGCCCCCTTCCCTGTCTGAGGACCCCTTCCCCATCCTGAGCCCCCTTCCCTGT
CCTAAGCCTGACGCCTGCACTGGGCCCTCCGGCCCTCCCCTGCCCAGGCAGCTGGTGGTGGGCGCTAATCCTCCT
GAGTGCTGGACCTCATTAAAGTGCATGGAATC

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FIGURE 2046

MSLLLLLALPVLASRAYAAPAPVQALQQAGIVGGQEAAPRSKWQVSLRVRDRYWMHFCGGS LIHPQWVLTAHC
LGPDVKDLATLRVQLREQHLYYQDQLLPVSRIIVHPQFYIIQTGADIALLELEEPVNISSRVHTVMLPPASETFP
PGMPCWVTGWGDVDNDEPLPPFFPLKQVKVPIMENHICDAKYHLGAYTGDDVRIIRDDMLCAGNSQRDSCKGDSG
GPLVCKVNGTWLQAGVVSWEDEGCAQPNRPGIYTRVTYYLDWIHHYVPPKP

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FIGURE 2047

ATTAACCTTCTCTTAGTCTTCAACCTAAGTACTTGAATGTCAAGTACCCTCCAACCTCAATGTCCCAAGACTTT
TAAGAGCGGAAGGTACCGATGAGTTCCATCCTTTACTAGGGTCACCAAGGAAGGCATGGGTATATGGAAATTTTT
ATTATTATTCCATCTGAATATCATTCTTAGAGAATAGGAGCTTTTGTCTGAAGGGCTGCCGGCTTCCTTCTGG
GATCTAGCAGCCAGGGTTAGATCACAGGTGTCACTTTAGGCGAGTAGTTAGCAACGGTATCGCTAGCAACTGAG
CCGACCCCTGCAGCCAGAGGTTTGCAGTGGGTAGTGTATTCCAGAAAGGGCCCTGACATGTGAAAGGAAGGAA
TGTGCCCTAATATTCTACAGTTGTTTTATCGTTGCTACTGATTAGGTCCATGGAGGGAAGCCATCCCTGAGACG
CATGACAGTGATGCGGGAAGGGCCGGCCAGGCTGTGAGGGGCCGGCCTTCATGTTCAATGACCGCGGCAC
CAGCCTCACCGCCGAGGAGCGCTTCTCGACGCCCGGAGTACGGCAACATCCCAGTGGTGCAGCTGGCTGTGGGCAA
GGAGGAGTCCAAGACGCTGAACGTCAACTGCGTGGACTACATGGGCCAGAACGCGCTGCAGCTGGCTGTGGGCAA
CGAGCAGCTGGAGGTGACCGAGCTGCTGCTCAAGAAGGAGAACCTGGCGCGCATTGGCGACGCCCTGCTGCTCGC
CATCAGCAAGGGCTACGTGCGCATCGTAGAGGCCATCTCAACCACCTGGCTTCGCGGCCAGCAAGCGTCTCAC
TCTGAGCCCTGTGAGCAGGAGCTGCAGGACGACGACTTCTACGCTTACGACGAGGACGGCACGCGCTTCTCGCC
GGACATCACCCCCATCATCTGGCGGCGCACTGCCAGAAATACGAAGTGGTGCACATGCTGCTGATGAAGGGTGC
CAGGATCGAGCGGCCGACGACTATTTCTGCAAGTGGGGGACTGCATGGAGAAGCAGAGGCACGACTCCTTCAG
CCACTCACGCTCGAGGATCAATGCCTACAAGGGGCTGGCCAGCCCGGCTTACCTCTCATTGTCCAGCGAGGACCC
GGTGCTTACGGCCCTAGAGCTCAGCAACGAGCTGGCCAAGCTGGCCAACATAGAGAAGGAGTTCAGAATGACTA
TCGGAAGCTCTCCATGCAATGCAAAGACTTTGTAGTGGGTGTGCTGGATCTCTGCCGAGACTCAGAAGAGGTAGA
AGCCATTCTGAATGGAGATCTGGAATCAGCAGAGCCTCTGGAGGTACACAGGCACAAAGCTTCATTAAGTCGTGT
CAAACCTGGCCATTAAGTATGAAGTCAAAAAGTTTGTGGCTCATCCCACTGCCAGCAGCAGCTCTTGACGATCTG
GTATGAGAACCCTCAGGCCTAAGGGAGCAGACCATAGCTATCAAGTGTCTCGTTGTGCTGGTCTGGCCCTGGG
CCTTCCATTCTGGCCATTGGCTACTGGATCGCACCTTCGAGCAGGCTGGGGAAAATTCTGCGAAGCCCTTTTAT
GAAGTTGTAGCACATGCAGCTTCTTTCATCATCTTCTGGGTCTGCTGTGTTCAATGCCCTCAGACAGGTTTGA
AGGCATCACACGCTGCCCAATATCACAGTTACTGACTATCCCAAACAGATCTTCAGGGTGAAAACCCAGCTT
TACATGGACTGAAATGCTAATTATGGTCTGGGTCTTGAATGATGTGGTCTGAATGTAAGAGCTCTGGCTGGA
AGGACCTAGGGAATACATTTTGCAGTTGTGGAATGTGCTTGACTTTGGGATGCTGTCCATCTTCATTGCTGCTTT
CACAGCCAGATTCTAGCTTTCTTTCAGGCAACGAAGGCACAACAGTATGTGGACAGTTACGTCCAAGAGAGTGA
CCTCAGTGAAGTGACACTCCCACAGAGATACAGTATTTCACTTATGCTAGAGATAAATGGCTCCCTTCTGACCC
TCAGATTATATCTGAAGGCCTTTATGCCATAGCTGTTGTGCTCAGCTTCTCTCGGATTGCGTACATCCTCCCTGC
AAATGAGAGCTTTGGCCCCCTGCAGATCTCTTGAAGGACTGTAAAGGACATATTCAAGTTCATGGTCTCTTT
TATTATGGTGTTTTTTGCCTTTATGATTGGCATGTTTATCTTTATTCTTACTACCTTGGGGCTAAAGTTAATGC
TGCTTTTACCAGTGTAGAAGAAAGTTTCAAGACTTTATTTTGGTCAATATTTGGGTGTCTGAAGTGACTTCCGT
TGTGCTCAAATATGATCACAATTCATAGAAAATATTGGATACGTTCTTTATGGAATATACATGTAACATATGGT
GGTCTTTTTACTCAACATGCTAATTGCTATGATTAATAGCTCATATCAAGAAATTGAGGATGACAGTGATGTAGA
ATGGAAGTTGCTCGTTCAAACTTTGGTTATCCTATTTTGTATGATGGAAAAACATTACCTCCACCTTTCAGTCT
AGTTCTTAGTCCAAATCATTGTGTTATTTTCATCATGCAATTGTAACTTTCCCAAATGCAGAAGGAGAAGGCT
TCAGAAGGATATAGAAATGGGAATGGGTAACCTCAAAGTCCAGGTTAAACCTCTTCACTCAGTCTAACTCAAGAGT
TTTTGAATCACACAGTTTTAACAGCATTCTCAATCAGCCAACAGCTTATCAGCAGATAATGAAAAGACTTATAAA
GCGGTATGTTTTGAAAGCACAAAGTAGACAAAGAAAATGATGAAGTTAATGAAGGTGAATAAAAGAAATCAAGCA
AGATATCTCCAGCCTTCGTTATGAACTTTTGGAAGACAAGAGCCAAGCAACTGAGGAATTAGCCATTCTAATTCA
TAACTTAGTGAGAACTGAATCCCAGCATGCTGAGATGTGAATGATGCAGCAACCTGGATTGGCTTTGACTAT
AGCACAATGTGGGCAATAATATTTCTAAGTATGAAATACTTGAAAACTATGATGTAATTTTTAGTATTAACCT
ACCTTTATCATGTGAACCTTTAAAAGTTAGCTCTTAATGGTTTTATTGTTTTATCAGTGAATGCAATTTTATT
TGCTGCTTTGACATTACAGTGGCATACCATTTGTGTTGAAAAGCCCAATATTACTATATTATTGAACTTTTATT
CATTTTAGAGTAACTCCACATCTTTGCACTACCTGTTTGCTTCCAAGAGACTATCAGTTCCTTGGGGACAGGGA
CCATGTCTTATTCTCTTTGTGCTCCAGCATCTAGTACAGTGCCTGGTATATAGTAGGTGCTCAATAAATGTGTG
AAACCAACTGAACTGCCAACAAATAAAAATAAAAAGTCTTCACTATGTAGCATAAAAA

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FIGURE 2048

MEGSPSLRRMTVMREKGRRQAVRGPAFMFNDRGTSLTAAEERFLDAAEYGNIPVVRKMLEESKTLNVNCVDYMGQ
NALQLAVGNEHLEVTELLKKENLARIGDALLAISKGYVRIVEAILNHPGFAASKRLTSPCEQELQDDDFYAY
DEDGTRFSPDITPIILAHCQKYEVVHMLLMKGARIERPHDYFCKCGDCMEKQRHDSFHSRSRINAYKGLASPA
YLSLSSDPVLTALELSNELAKLANIEKEFKNDYRKLSMQCKDFVVGVLDCRDSEEVEAILNGDLESAEPLEVH
RHKASLSRVKLAIKYEVKKFVAHPNCQQQLTIWYENLSGLREQTTIAIKCLVVLVVALGLPFLAIGYWIAPCSRL
GKILRSPFMKFVAHAASFIIIFLGLLVFNASDRFEGITTLPNITVTDYPKQIFRVKTTQFTWTEMLIMVWVLGMMW
SECKELWLEGPREYIILQWNVLDGMLSIFIAAFTARFLAFLQATKAQQYVDSYVQESDLSEVTLPEIQYFTYA
RDKWLPSDPQIISEGLYAIIVVLSFSRIAYILPANESFGPLQISLGRIVKIDIFKFMVLFIMVFFAFMIGMFILYS
YYLGAKVNAAFTTVEESFKTLFWSIFGLSEVTSVVLKYDHFIEENIGYVLYGIYNVTMVVLLNMLIAMINSSYQ
EIEDDSDEWKFARSKLWLSYFDDGKTLPPPFSLVSPKSFVYFIMRIVNFPKCRRRRLQKDIEMGMGNSKSRLN
LFTQNSRVFESHFSNLSILNQPTRYQQIMKRLIKRYVLKAQVDKENDEVNEGELKEIKQDISSRLRYELLEDKSQA
TEELAILIHKLSEKLNPSMLRCE

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FIGURE 2049A

GGCAGGAGCAGAAGCAACAATAATTGTGAAAAATACTTCAGCAGTTATGGACTCATCTGTCATTCAAAGGAAAA
AGTAGCTGTCAATGGTGGTGGCTTGGTTGGCTCATTACAAGCATGCTTTCTTGCAAAGAGGAATTTCCAGATTGA
TGTATATGAAGCTAGGGAAGATACTCGAGTGGCTACCTTCACACGTGGAAGAAGCATTAACTTAGCCCTTTCTCA
TAGAGGACGACAAGCCTTGAAAGCTGTTGGCCTGGAAGATCAGATTGTATCCCAAGGTATTTCCATGAGAGCAAG
AATGATCCACTCTCTTTTCAGGAAAAAGTCTGCAATTCCTATGGGACAAAGTCTCAGTATATTCTTTCTGTAAG
CAGAGAAAAATCTAAACAAGGATCTATTGACTGCTGCTGAGAAATACCCCAATGTGAAAATGCATTTAAACCACAG
GCTGTTGAAATGTAATCCAGAGGAAGGAATGATCACAGTGTGGATCTGACAAAGTTCCCAAAGATGTCACCTTG
TGACCTCATTGTAGGATGTGATGGAGCCTATTCAACTGTCAGATCTCACCTGATGAAGAAACCTCGCTTTGATTA
CAGTCAGCAGTACATTCTCATGGGTACATGGAGTTGACTATTCCACCTAAGAACGGAGATTATGCCATGGAACC
TAATTATCTGCATATTTGGCCTAGAAATACCTTTATGATGATTGCACTTCCTAACATGAACAAATCATTACATG
TACTTTGTTTCATGCCCTTTGAAGAGTTTGAAGAACTTCTAACCCAGTAATGATGTGGTAGATTCTTCCAGAAATA
CTTTCCGGATGCCATCCCTCTAATTGGAGAGAACTCCTAGTGCAAGATTTCTCTGTTGCCGCCCCAGCCCAT
GATATCTGTAAAGTGCTCTTCATTTCACTTTAAATCTCACTGTGTACTGCTGGGAGATGCAGCTCATGCTATAGT
GCCGTTTTTTGGGCAAGGAATGAATGCGGGCTTTGAAGACTGCTTGGTATTTGATGAGTTAATGGATAAATTCAG
TAACGACCTTAGTTTGTGCTTCTCTGTGTTCTCAAGATTGAGAATCCAGATGATCACGCGATTTCAGACCTATC
CATGTACAATTACATAGAGATGCGAGCACATGTCAACTCAAGCTGGTTCAATTTTCAGAAGAACATGGAGAGATT
TCTTCATGCGATTATGCCATCGACCTTTATCCCTCTCTATACAATGGTCACTTTTCCAGAATAAGATACCATGA
GGCTGTGCAGCGTTGGCATTGGCAAAAAAGGTGATAAACAAAGGACTCTTTTTCTGGGATCACTGATAGCCAT
CAGCAGTACCTACCTACTTATACACTACATGTCACCACGATCTTCTCTGCTTGAGAAGACCATGGAAGTGGAT
AGCTCACTTCCGGAATACAACATGTTTCCCGCAAAGGCCGTGGACTCCCTAGAACAAATTTCCAATCTCATTAG
CAGGTGATAGAAAGGTTTTGTGGTAGCAATGCATGATTTCTCTGTGACCAAAATTAAGCATGAAAAAATGTTT
CCATTGCCATATTTGATTCACTAGTGAAGATAGTGTCTGCTTATAATTAAGTGAATGTAGAGTATCTCTGTA
TGTTAATTGCAATTACTGGTTGGGGGTGCATTTAAAAGATGAAACATGCAGCTTCCCTACATTACACACACTC
AGGTTGAGTCATTCTAACTATAAAAGTGCAATGACTAAGATCCTTCACTTCTCTGAAAGTAAGGCCCTAGATGCC
TCAGGGAAGACAGTAATCATGCCCTTTCTTTAAAAGACACAATAGGACTCGCAACAGCATTGACTCAACACCTAG
GACTAAAAATCACAACCTTAAGTACATGTTAACTGCATTTTTCATTACGTGAATGGAACCTTACCTAACCCACAGGG
CTCAGACTTACTAGATAAAACCAGAAATGGAAATAAGGAATTCAGGGGAGTTCCAGAGACTTACAAAATGAACTC
ATTTTATTTTCCACCTTCAAATATAAGTATTATCATCTATCTGTTTATCGTCTATCTATCTATCTATCTATCTAT
CTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTAT
ATTTAGAGATCAGGTCTCACTCTGTTGACCAGGCTGGAGTGCAGTGGTGAGATCTGGGTTCACTGCAACCTCTGC
CTCCTGGGCTCAAGCAATCCTCCCACTTCAGCCTCCCAATAGCTGGGGCTACCATGGTATTTTTTCAGTAGAGAC
CGGGTCTTGCCATGCTGCCAGGCCAGTCTCAAACCTCCTGGCCTCATGTGATCTGCCACCTCAGCCTCCCAAAG
TACAGGGATTAGAGTTGTGAGCCACCGCTGCCAGCCAGAGTTACCTCTAAAGATAAGAAAAAGGCTATTAATA
TCATACTAAGTGAAGGACAGGAAAGGTTTTATTCTAAATTAATGTCTACATGTGCCAGAATGGAAGGAAAC
AAGGGGAGACAACTTTTATAGAAATACAAAGCCATTACTTTATTCAATTTTCAGACCCTCAGAAGCAATTTACTAA
TTTATTCTTCGACTACATACTGCAGCAGAACCAGCAATACACTTGATTTTTAAAGCACATTTAGTGAAATGTTT
TCTTTGGTTCATCCTTCTTTAACAGGCTGCTGAGTCACTCAGAAATCCTTCAAACATGATTAATTATGAAGATGA
AACACTAGAGTCATATAAGAAATAAAATTTGGGCAATAAAATAAAATGATTCAAGTGTTTCTTTCTATATTGTCA
ATGAAAACCTTGAGTTCTAATAATCCATGTTTCAGTTTGTAGGGAAAGAAAAATAATTTTTCTTCTACCCACTT
TAGGTTCTTGGCTGGGGCCCCATATAACAAAAGACAGATTGACAAGAGAAAAACAAACATAAATTTATTAGCGGG
TATATGTAATATATATGTGGGAAATACAGGGGAATGAGCAAACTCTCAAAGAGCTGGCGTCTTAGAACTCCCTGGC
TTATATAGCATCGACAAAGAACAGTAAATTTTTAGAGAAACAACAAACAAAGAAAAAGAGCTTTGAGTCTGTAG
GGGCAGCAATTTGGGGGAAGCAATATATGGGAGTTTGCTTGTAGATTCTCTGGTGGTGGTCTCCAGGCTGAC
AAGGATTCAAAGTTGTCTCTGAAACTCCTCTTTGTCTACTGACATATAAAACGCTCTTTTGTTCACAAAGAG
GATTTCTTTTTCAITCTAGAATTATCTCCTTGATACTTGATCAGATATAGGACATGACACTGAATAGAGTCCAA
CAGTACAAAAAAATTCAGTAIGTTCTAGCTACTTCACACATGTGTACGCGACAGTTATTTTACAGTAAGGTAT
TTTCGAGAAAAATGCATTACGTGTTTTGGAAAAATAGAGTAATTTAAAAATATATTTGAAATGAAAAATCTCCAAC
ACATTAGAAGATGATGATGTAGATGCCCATCGTGTGCCACAAGTGGTTTTTTCATTATGTAAGCACCCGTTGA

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FIGURE 2049B

ATTAAAAGAATTTGTTTTTGTTCACCTCTTCCTGAGGCCCAAGAGCATATGGGCAATTCGGATTTCCTGCTGGA
CCACAAGGTTCTGTTGATATTACATAGAAACGGGTATTCCAGACACTTCTTATGATGAAAGTCCAAAAGTGGCAT
CCAATTTAAGGCCCCATCTTTCGTTGCCATTCTTCATTCTACAAAGGACGAACTTGGATTACATCAACTTTGGA
CCCATTGGTTTTGTGCTGTCGTCAACTGACAGTGATTACCACCTGGTGATGATAAAAATGATGGAAGAAGAGTT
GAAAGTCACTTTTTTCTTTGGCCTGTCCCCATCTTCTGTGACATCACAATGGGTCTGATCTGCATTTCACCTTC
AGCTGCTGGTAGGTCTTTAGCAGGCCTCTGGCACCTCAGCAGTCGGAGGCACAGAAGCTGCAAAAGGGATCTTCG
AAACTGGGCAGAGAAAAATAAAGTGAATATTAAGTAAAAGTTGGGCACTAATCTGGATTAACATTTCGAGGAAA
TCAGTTGAGCTGATTTAAGTTGTTTTTGTGTTAGCAGGTGGGATGTGGGGTTATGTGGTCAIGCTCAGATC
TACCTAAATCACCCAGAGCTTTATGTCTTTTATTCAATCTAAATCTTATTAACCGGAATATGTAGGACCATTTT
AATACCTTGTAATCCTCCAAGCTTCAATCTGCACACACTTTCTATGAGGGCAGGTACAATATTAAGAGATTTTG
AACATTAAGTTAGTCCACAAATATTCAGTGGGCATCTACTAGGTGACAGCCACTGTGCTATAATTAGAGACTTTT
TACTATAAGCATCAAAAACAGATAAGGCTCTTCCTGGCAGAGTTTACAGCCTGGTGTACTTGCTAATGTCTCTTT
AATTAGGTGAAGAATTTTTTTTTTCTATCGAAATTACTAATCAGTTGGGGAAAAAATACTATAGCAGACAGCAC
TAATGTCATCAACAAACATTGTTCTTCTCCGTGTCCTGGGTACAACATCGAATAATATTTCTTGGCCTCCTTTCC
GCTTCTCCTCTCTGCTGTTCCCTCTCTACAAGAACCTGGGAGGCCAACGCCTAAAGATCATAATATCACAATGGAA
GGAACCTAGATTCTAAATGACTGCATAGGACAGATCCCATCTCTCCACCCAATACATTATTAGACTGAACTGT
GACCTGAAATGAGCAATAAACTCTGTATTAATTCAGTGAATGTGGGGTTGCTTGTATAGTAGTCGGTCCATC
ATGACCAGTAAACATAAATCAAAAGTTAATGTAATTGTTATCCCATTTATTAGAGCGAAATAAATGTTGAATAT
ATGGACTTTCTCAGATTAGGAAATACCAATTAATAATAATAAATAGCT

2258/2682
FIGURE 2050

MDSSVIQRKKVAVIGGGLVGSLOACFLAKRNFQIDVYEAREDTRVATFTRGRSINLALSHRGRQALKAVGLEDQI
VSQGIPMRARMHSLSGKKS AIPYGTKSQYILSVSRENLNKDLLTAAEKYPNVKMHFNHRLKCNPEEGMITVLG
SDKVPKDVTCDLIVGCDGAYSTVRSHLMKKPRFDYSQQYIPHGYMELTIPPKNGDYAMEPNYLHIWPNTFMMIA
LPNMNKSFTCTLFMPFEEFEKLLTSNDVVDFQKYFPDAIPLIGEKLIVQDFFLLPAQPMISVKCSSFHFKSHCV
LLGDAAHAIVPFFGQGMNAGFEDCLVFDELMDKFSNDLSLCLPVFSRLRIPDDHAISDLSMYNIEMRAHVNSSW
FIFQKNMERFLHAIMPSTFIPLYTMVTFSRIRYHEAVQRWHWQKKVINKGLFFLGSLIAISSTYLLIHYMSPRSF
LCLRRPWNWIAHFRNTTCFPAKA VDSLEQISNLISR

2259/2682
FIGURE 2051

GACGCTGCGGGGCGGGCGGACAGACTGCGGGACGGACGGTGGACGCTGGGACGCGTTTGTAGCTCCGGCCCCGCC
GTTCCGACCCCCGCCGCCGTCGCCGCCATGACGGGGCTAGCACTGCTCTACTCCGGGGTCTTCGTGGCCTTCTGG
GCCTGCGCGCTGGCCGTGGGAGTCTGCTACACCATTTTTGATTGGGCTTCCGCTTTGATGTGGCATGGTTCCTG
ACGGAGACTTCGCCCTTCATGTGGTCCAACCTGGGCATTGGCCTAGCTATCTCCCTGTCTGTGGTTGGGGCAGCC
TGGGGCATCTATATTACCGGCTCCTCCATCATTGGTGGAGGAGTGAAGGCCCCCAGGATCAAGACCAAGAACCTG
GTCAGCATCATCTTCTGTGAGGCTGTGGCCATCTACGGCATCATCATGGCAATTGTCATTAGCAACATGGCTGAG
CCTTTCAGTGCCACAGACCCCAAGGCCATCGGCCATCGGAACTACCATGCAGGCTACTCCATGTTTGGGGCTGGC
CTCACCGTAGGCCTGTCTAACCTCTTCTGTGGAGTCTGCGTGGGCATCGTGGGCAGTGGGGCTGCCCTGGCCGAT
GCTCAGAACCCAGCCTCTTTGTAAAGATTCTCATCGTGGAGATCTTTGGCAGCGCCATTGGCCTCTTGGGGTC
ATCGTCGCAATTCTTCAGACCTCCAGAGTGAAGATGGGTGACTAGATGATATGTGTGGGTGGGGCCGTGCCTCAC
TTTTATTATTGCTGGTTTTCTGGGACAGCTGGAGCTGTGTCCCTTAGCCTTTCAGAGGCTTGGTGTTCAGGGC
CCTCCCTGCACTCCCCTCTTGCTGCGTGTGATTGGAGGCACTGCAGTCCAGGCCGAGTCCTCAGTGGGGGAG
CAGGCTGCTGCTGCTGACTCTGTGCAGCTGCGCACCTGTGTCCCCACCTCCACCCTCAACCCATCTTCCTAGTG
TTTGTGAAATAAACTTGGTATTTGTCTGGGTC

2260/2682
FIGURE 2052

MTGLALLYSGVFVAFWACALAVGVCYTIFDLGFRFDVAWFLTETSPFMWSNLGIGLAISLSVVGAAWGIYITGSS
IIGGGVKAPRIKTKNLVSIIFCEAVAIYGIIMAIVISNMAEPPSATDPKAIGHRNYHAGYSMFGAGLTVGLSNLF
CGVCVGIVGSGAALADAQNPSLFVKILIVEIFGSAIGLFGVIVAILQTSRVKMGD

2261/2682
FIGURE 2053

GACTGTCTCAGTGGAGCTGGGTCACTCAGGCCTTGGCTCCTTGAACTTTGGCCGCCATGTGCTTCCCGAAGGT
CCTCTCTGATGACATGAAGAAGCTGAAGGCCCGAATGCACCAGGCCATAGAAAGATTTTATGATAAAATGCAAAA
TGCAGAATCAGGACGTGGACAGGTGATGTCGAGCCTGGCAGAGCTGGAGGACGACTTCAAAGAGGGCTACCTGGA
GACAGTGGCGGCTTATTATGAGGAGCAGCACCCAGAGCTCACTCCTCTACTTGAAAAAGAAAGAGATGGATTACG
GTGCCGAGGCAACAGATCCCCGTCCCGGATGTTGAGGATCCCGCAACCGAGGAGCCTGGGGAGAGCTTTTGTGA
CAAGGTCATGAGATGGTTCCAGGCCATGCTGCAGCGGCTGCAGACCTGGTGGCACGGGGTTCTGGCCTGGGTGAA
GGAGAAGGTGGTGGCCCTGGTCCATGCAGTGCAGGCCCTCTGGAAACAGTTCCAGAGTTTCTGCTGCTCTCTGTC
AGAGCTCTTCAATGTCCTCTTTCCAGTCCTACGGAGCCCCACGGGGGACAAGGAGGAGCTGACACCCAGAAGTG
CTCTGAACCCCAATCCTCAAAATGAAGATACTGACACCACCTTTGCCCTCCCGTCACCGCGCACCCACCCTGAC
CCCTCCCTCAGCTGTCCTGTGCCCCGCCCTCTCCCGCACACTCAGTCCCCCTGCCTGGCGTTCTTGGCGCAGCTC
TGACCTGGTGTGCTGCGCCCTGGCATCTTAATAAACCTGCTTATACTTCCCTGGAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 2054

MCFFPKVLSDDMKKLKARMHQAIERFYDKMQNAESGRGQVMSSLALEDDFKEGYLETVAAYYEEQHPELTPLLEK
ERDGLRCRGNRSPVPDVEDPATEEPGESFCDKVMRWFQAMLQRLQTWWHGVLAUVKEKVVALVHAVQALWKQFQS
FCCSLSELFMSFQSYGAPRGDKEELTPQKCSEPQSSK

2263/2682
FIGURE 2055A

[illegible]

2264/2682
FIGURE 2055B

ATAAGGGTAAGTCCGAACCTTTCTCATACTGGAGGTTACATTACATCAGTCTGTCTTCCCCTGCGGATGGCCTCA
GCCCTGGGTGGCCAGGCTCTGTGCTCACAGTCCAGAGCAATGGATCCTCCAACACCACCAGGTGGATGTGGAGCA
GGAGAGCTGGATCGTGGCATTGTTTCTGGGTCTGCAGTTGGGAGTTGGTTTCTGGGTCTCCATTGGTCTACT
TGTCTAGTCCCATACCAGACTCACGGTCTCCATTATTGGAGCTTTAATAATTTTGGTATAGGGTCATCTCTCCA
CCTTGTTTTCTTCTATTCTTGGTCTTTGCAATTCTATGAATATTTTCAGGGTCAGCATGTCAACTCCATTGAAA
AACCTGCTGGGATTTTAATAGAACTTACAGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGGTGG
ATCACAGGTCAGGAGTTTGAGAACAGCTGGCCAAGATGGTGAAACCCCGTCTCTACTAAAAATACAAAATTAGC
TGGGTGCGGTGGCAGGTGCCTGTAGTCCCAGCTACTTGGGACACCGAGGCAGGAGAATCACTTGAACCCGGGAGG
CGGAGGTTGCAGTGAGCCGAGATCGTGCCACTGCACTCTAGCCTGGGCGACAGAGCGAGACTCCATCTCAAAAAA
AAAGAAAAAGAAAATTGCAGTAAATTTAAAACTAATTTGGGGAAGAATCTGTATTTTACAATACCTAGTGTCT
TGCCAGTAAGCATGGTTCATCTTCCCATTTATTTACGTCATTTTAAATCTTTCAGTGATGTTTTAGAATTTTTT
TATAAAAAACCTTCACTATAAGAACAGAAAACCAAACACCGCATGTTCTCACTCATAGGTGGGAATTGAACAATGA
GAACACTTGGACACAGGGCGGGGAACGTCACACGCCTGGACTGTTGGGGGGGTGGCTGGGAGAGGGATAGTGTTA
GGAGAAATACCTAATGTAAATGACGAGTTAATGGTGCAGCCAACCAACCTGGCACATGTATTCATATGTAACAAA
CCTGCACGTTGTGCACATGTACCCTAGAACTTAAAGTATATTAAGAAAGAAACCTTGGCACTGATTTTGTTAGA
TTTATTCCTAGGTATCCTTCTTTTTTGATTTGTCATTGCTATTGTAGATGGCATCTTTTTAAAGTTATAT
TTTCTAAAGCAAAAAATAAAAAAGTTGTATTTCTAATTTTATTACCAATATATAAGAATGTAATTTATTTTAA
CATAATTATCTTATGTCTAGTAATAATTCTGATAATTGCTTCTTCTATTAAAAACCTTACACCCATTATTGATT
TATTTTCTGTTTTAAATATCTTCTGCACTGGCTAAAACCTCCACTATAATGTTGAGCAGAACAGTGAGGCAT
CCTTAGAACTATCTTGGTTGCAAAGGGTAGGTCTCTAATGTTTCATCAATAAATGTGATGTTTCTAGTCTGAGTT
TGCTAAGTATATTTTAAATAATCAGTAAAGTTAGATTTTATCCATTTTATCTTAACATTGAGATGCTCATAT
CATTTTCTTCTTCAATGTGTAAAATGGTGA

2265/2682
FIGURE 2056

MLRGTLCAVLGLLRAQFFPCPPACKCVFRDAAQCSGGDVARISALGLPTNLTHILLFGMGRGVLQSQSFSGMTV
LQRLMISDSHISAVAPGTFSDLIKLTLRLSRNKITHLPGALLDKMVLLLEQLFDHNALRGIDQNMFQKLVNLQE
LALNQNLDFLPASLFTNLLENKLLDLSGNNLTHLPKGLLGAQAKLERLLHNSNRLVSLDSGLLNSLGALTELOF
HRNHIRSIAPGAFDRLPNLSSLTSLRNHLAFLPSALFLHSHNLTLLTLFENPLAELPGVLFGEMGGLQELWLNRT
QLRTLPAAAFRLNSRLRYLGVTLSPRLSALPQGAFOGLGELQVLALHSNGLTALPDGLLRGIGKLRQVSLRRNRL
RALPRALFRNLSSLESVQLDHNQLETLPGDVFGALPRLTEVLLGHNSWRCDGLGPFGLWLRQHLGLVGGEPPR
CAGPGAHAHLPLWALPGGDAECPGPRGPPRPAADSSSEAPVHPALAPNSSEPWWAQPVTGKGQDHSFPGFY
FLLAVQAMITVIVFAMIKIGQLFRKLIRERALG

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FIGURE 2057

AGACAAAAAGTAACCTTCCTGAAGAGGACATGTGATTGGAAGTTGTCAATTGTTGAAGCATTGGTAACTCCAGTC
TCTAACGTTTTAGAAAATCATAACAAGCGGTTCTGTACCCTGTAAAGAACAGAAACCTGGAAATCTAAGGCTCAA
AGACATCCAAGTAATTGGTATCTGGGAGATTGGGATTCAAACCCAGCTCTGCTTGAAGTTGGTGAAGTACTGAGT
TCTTCATTATGCTCTGATGGAGATTATGATTACCTCATCAAGTTTTAGCTTTGGGAGACTCTGGTGTAGGGAAGA
CCAGTGTACTTTACCAATATACAGATGGTAAATTTAACTCCAAATTTATCACAACAGTGGGCATTGATTTCAGGC
CAAAAAGAGTGGTGTACAGAGCCAGTGGGCCGGATGGACCAGTAGGTAGAGGCCAGAGAATCCACCTGCAGTTAT
GGGACACAGCAGGGCAGGAGAGGTTTCGTAGCTTAACGACAGCGTTCTTCAGAGATGCTATGGGTTTTCTTCTAC
TTTTTGATCTGACAAATGAGCAAAGTTTCTCAATGTCAGAACTGGATAAGCCAGCTACAGATGCATGCATATT
GTGAAAACCCAGATATAGTGCTGTGTGGAAACAAGAGTGATCTGGAGGACCAGAGAGTAGTGAAGAGGAGGAAG
CCATAGCACTCGCAGAGAAATATGGAATCCCTACTTTGAACTAGTGCTGCCAATGGGACAAACATAAGCCAAG
CAATTGAGATGCTTCTGGACCTGATAATGAAGCGAATGGAACGGTGTGTGGACAAGTCTGGATTCTGAAGGAG
TGGTGGATCAAATGGTCATGCCTCTACGGATCAGTTAAGTGAAGAAAAGGAGAAAGGGGCATGTGGCTGTTGAG
AAGTCAAGTAACGACATAGTAGTTCAGGTGGCCCATGCCTGGGATCTTCTCTATGATTGATACATGGCACAGTGA
GAGATTAATGGGCATTGTGTACAAATTGCTTCTACCATCCCCATTAGACCTACGAATAAAGCATCCGGTTCTAA
AATTAAAAAAA

2267/2682
FIGURE 2058

MSDGDYDYLIKFLALGDSGVGKTSVLYQYTDGKFNSKFITTVGIDFRPKRVVYRASGPDGPVGRGQRIHLQLWDT
AGQERFRSLTTAFFRDAMGFLLLFDLTNEQSFLNVRNWISQLQMHAYCENPDIVLCGNKSDLEDQRVVKEEEAIA
LAEKYGIPYFETSAANGTNISQAIEMLLDLIMKRMERCVDKSWIPEGVVRNNGHASTDQLSEEKEKGACGC

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FIGURE 2059

GGCCACAGGCCAGCGCCACTCTGCCAGGCTCCCGGCCATCGCCCGCTGGTGCGCCGCCCGCCAGCTCTTTGCCCG
GCGCGGGGGCCGCCCGCGGGCTCAGGGCAGACCATGCGCCGCCAAGTCCGCTGCCCGCCCGCTGGCTATGCG
TGCTGGCAGCGCCCTCGCCTGGGCCCTTGGGCCGGCGGCCAGGCGCCAGGCTGCAGGAGGAGTGTGACT
ATGTGCAGATGATCGAGGTGCAGCACAAGCAGTGCCTGGAGGAGGCCAGCTGGAGAATGAGACAATAGGCTGCA
GCAAGATGTGGGACAACCTCACCTGCTGGCCAGCCACCCCTCGGGGCCAGGTAGTTGTCTTGGCCTGTCCCTCA
TCTTCAAGCTCTTCTCCTCCATTCAAGGCCGCAATGTAAGCCGAGCTGCACCGACGAAGGCTGGACGCACCTGG
AGCCTGGCCCGTACCCCATTTGCTGTGGTTTGGATGACAAGGCAGCGAGTTTGGATGAGCAGCAGACCATGTTCT
ACGGTTCTGTGAAGACCGGCTACACCATTTGGCTACGGCCTGTCCCTCGCCACCCCTTCTGGTCCGCACAGCTATCC
TGAGCCTGTTAGGAAGCTCCACTGCACGCGGAACCTACATCCACATGCACCTCTTCATATCCTTCATCTGAGGG
CTGCCGCTGTCTTCATCAAAGACTTGGCCCTCTTCGACAGCGGGGAGTCGGACCAGTCTCCGAGGGCTCGGTGG
GCTGTAAGGCAGCCATGGTCTTTTCCAATATTGTGTCATGGCTAACTTCTTCTGGCTGCTGGTGGAGGGCTCT
ACCTGTACACCTGCTTGCCGTCTCCTTCTTCTGTAGCGGAAGTACTTCTGGGGGTACATACTCATCGGCTGGG
GGGTACCCAGCACATTACCATGTTGTGGACCATCGCCAGGATCCATTTTGAGGATTATGGGTGCTGGGACACCA
TCAACTCCTCACTGTGGTGGATCATAAAGGGCCCCATCCTCACCTCCATCTTGGTAAACTTCATCCTGTTTATTT
GCATCATCCGAATCCTGCTTCAGAACTGCGGGCCCCAGATATCAGGAAGAGTGACAGCAGTCCATACTCAAGGC
TAGCCAGGTCCACACTCCTGCTGATCCCCCTGTTTGGAGTACACTACATCATGTTTCGCCTTCTTTCCGGACAATT
TTAAGCCTGAAGTGAAGATGGTCTTTGAGCTCGTCTGGGGTCTTTCCAGGGTTTGTGGTGGCTATCCTCTACT
GCTTCTCAATGGTGAGGTGCAGGCGGAGCTGAGGCGGAAGTGGCGGCGCTGGCACCTGCAGGGCGTCTGGGCT
GGAACCCCAAATACCGGCACCCGTGCGGAGGCAGCAACGCGCCACGTGCAGCACGCAGGTTCCATGCTGACCC
GCGTCAGCCCAGGTGCCCGCCGCTCTCCAGCTTCCAAGCCGAAGTCTCCCTGGTCTTGACCACCAGGATCCCAGG
GGCCCAAGGCGGCCCTCCCGCCCTTCCCACTACCCCGGCAGACGCCGGGGACAGAGGCCTGCCCGGGCGCGG
CCAGCCCCGGCCCTGGGCTCGGAGGCTGCCCCGGCCCCCTGGTCTCTGGTCCGGACACTCTAGAGAACGCAGC
CCTAGAGCCTGCCTGGAGCGTTTCTAGCAAGTGAGAGAGATGGGAGCTCCTCTCCTGGAGGATTGCAGGTGGAAC
TCAGTCATTAGACTCCTCCTCAAAGGGCCCCCTACGCCAATCAAGGGCAAAAAGTCTACATACTTTCATCCTGAC
TCTGCCCCCTGCTGGCTCTTCTGCCCAATTGGAGGAAAGCAACCGGTGGATCCTCAAACAACACTGGTGTGACCT
GAGGGCAGAAAGGTTCTGCCCGGGAAGGTCACCAGCACCAACACCACGGTAGTGCCTGAAATTTACCATTGCT
GTCAAGTTCCTTTGGGTTAAGCATTACCACTCAGGCATTTGACTGAAGATGCAGCTCACTACCTATTCTCTCTT
TACGCTTAGTTATCAGCTTTTTAAAGTGGGTATTCTGGAGTTTTTGTGGAGAGCACACCTATCTTAGTGGTT
CCCCACCGAAGTGGACTGGCCCTGGGTGAGTCTGGTGGGAGGACGGTGCAACCCAAGGACTGAGGGACTCTGAA
GCCTCTGGGAAATGAGAAGGCAGCCACCAGCGAATGCTAGGTCTCGGACTAAGCCTACCTGCTCTCCAAGTCTCA
GTGGCTTCATCTGTCAAGTGGGATCTGTACACCAGCCATACTTAICTCTCTGTGCTGTGGAAGCAACAGGAATC
AAGAGCTGCCCTCCTTGTCACCCACCTATGTGCCAAGTGTGTAAGTGGCTCAGAGATGTGCACCCATGGGCT
CTGACAGAAAGCAGATACCTCACCTGCTACACATACAGGATTTGAACTCAGATCTGTCTGATAGGAATGTGAAA
GCACGGACTCTTACTGCTAACTTTTGTGTATCGTAACCAGCCAGATCCTCTTGGTTATTTGTTTACCACTTGTAT
TATTAATGCCATTATCCTGAATCCCCTTGCCACCCACCTCCCTGGCGTGTGGCTGAGGAGGCCCTCCATCTCA
TGTATCATCTGGATAGGAGCCTGCTGGTCACAGCCTCCTCTGTCTGCCCTTACCCAGTGGCCACTCAGCTTCC
TACCCACACCTCTGCCAGAAGATCCCCTCAGGACTGCAACAGGCTTGTGCAACAATAAATGTTGGCTTGA

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FIGURE 2060

MRPPSPLPARWLCVLAGALAWALGPAGGQAARLQEECDYVQMIEVQHKQCLEEAQLENETIGCSKMWDNLTWCWPA
TPRGQVVVLACPLIFKLFSSIQGRNVSRSTDEGWITHLEPGPYPIACGLDDKAASLDEQQTMFYGSVKITGYTIGY
GLSLATLLVATAILSLFRKLHCTRNYIHMHLFISFILRAAAVFIKDLALFDSGESDQCSEGSVGCKAAMVFFQYC
VMANFFWLLVEGLYLYTLLAVSFFSERKYFWGYILIGWGPSTFTMVWTIARIHFEDYGCWDTINSSLWWIIGP
ILTSILVNFILFICIRILLQKLRRPDIRKSDSSPYSLARSTLLLIPLFGVHYIMFAFFPDNFKPEVKMVFELV
VGSFQGFVVAILYCFLNGEVQAE LRKWRRLQGV LGWNPKYRHPSGGSNGATCSTQVSMLTRVSPGARRSSSF
QAEVSLV

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FIGURE 2061

TAACCCGCCGCTCCGCTCTCCCCGGCTGCAGGCGGCGTGCAGGACCAGCGGCGGCCGTGCAGGCGGAGGACTTC
GGCGCGGCTCCTCCTGGGTGTGACCCCGGGCGCGCCCGCGCGACGATCAGGGCGCGGCCGAGGTCTGCGAG
GCGCTGCTCTTCGCCCTGGCGCTCCAGACCGGCGTGTGCTATGGCATCAAGTGGCTGGCGCTGTCCAAGACACCA
TCGGCCCTGGCACTGAACCAGACGCAACACTGCAAGCAGCTGGAGGGTCTGGTGTCTGCACAGGTGCAGCTGTGC
CGCAGCAACCTGGAGCTCATGCACACGGTGGTGCACGCCGCCGCGAGGTCATGAAGGCCGTGTCGCCGGGCCCTT
GCCGACATGCGCTGGAACCTGCTCCTCCATTGAGCTCGCCCCCAACTATTTGCTTGACCTGGAGAGAGGGACCCGG
GAGTCGGCCTTCGTGTATGCGCTGTGCGGCCGCCCATCAGCCACGCCATCGCCCGGGCCTGCACCTCCGGCGAC
CTGCCCGGCTGCTCCTGCGGCCCGTCCCAGGTGAGCCACCCGGGCCCGGGAACCGCTGGGGAGGATGTGCGGAC
AACCTCAGCTACGGGCTCCTCATGGGGGCCAAGTTTTCCGATGCTCCTATGAAGGTGAAAAAACAGGATCCCAA
GCCAATAAACTGATGCGTCTACACAACAGTGAAGTGGGGAGACAGGCTCTGCGCGCCTCTCTGAAATGAAGTGT
AAGTGCCATGGGGTGTCTGGCTCCTGCTCCATCCGCACTGCTGGAAGGGGCTGCAGGAGCTGCAGGATGTGGCT
GCTGACCTCAAGACCCGATACCTGTGCGCCACCAAGGTAGTGCACCGACCCATGGGCACCCGCAAGCACCTGGTG
CCCAAGGACCTGGATATCCGGCCTGTGAAGGACTCGGAACTCGTCTATCTGCAGAGCTCACCTGACTTCTGCATG
AAGAATGAGAAGGTGGGCTCCACGGGACACAAGACAGGCAGTGAACAAGACATCCAACGGAAGCGACAGCTGC
GACCTTATGTGCTGCGGGCGTGGCTACAACCCCTACACAGACCGCGTGGTCGAGCGGTGCCACTGTAAGTACCAC
TGGTGCTGCTACGTACCTGCCGAGGTGTGAGCGTACCGTGGAGCGCTATGTCTGCAAGTGAGGCCCTGCCCTC
CGCCCCACGCAGGAGCGAGGACTCTGCTCAAGGACCCTCAGCAACTGGGGCCAGGGGCTGGAGACACTCCATGG
AGCTCTGCTTGTGAATTCCAGATGCCAGGCATGGGAGGCGGCTTGTGCTTTGCCTTCACTTGAAGCCACCAGGA
ACAGAAGGTCTGGCCACCCTGGAAGGAGGGCAGGACATCAAAGGAAACCGACAAGATTAAAAATAACTTGGCAGC
CTGAGGCTCTGGAGTGCCACAGGCTGGTGTAAAGGAGCGGGGCTTGGGATCGGTGAGACTGATACAGACTTGACC
TTTCAGGGCCACAGAGACCAGCCTCCGGGAAGGGGTCTGCCCGCCTTCTTCAGAATGTTCTGCGGGACCCCTGG
CCCACCCTGGGGTCTGAGCCTGCTGGGCCCACCACATGGAATCACTAGCTTGGGTGTAAATGTTTCTTTTGT
TTTTGCTTTTTCTTCTTTGGGATGTGGAAGCTACAGAAATATTTATAAAACATAGCTTTTTCTTTGGGGTGGCA
CTTCTCAATTCCTCTTTATATATTTTATATATATAAATATATATGTATATATATAATGATCTCTATTTTAAACT
AGCTTTTTAAGCAGCTGTATGAAATAAATGCTGAGTGAGCCCCAGCCCGCCCTGCAGTTCGCCGCCCTCGTCAAG
TGAACCTCGGCAGACCCTGGGGCTGGCAGAGGGAGCTCTCCAGTTTCCAGGCA

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FIGURE 2062

MRARPQVCEALLFALALQTGVCYGIKWLA LSKTPSALALNQTQHCKQLEGLVSAQVQLCRSNLELMHTVVHAARE
VMKACRRAFADMRWNCSSIELAPNYLLDLERGTRESAFVYALSAAAISHAIARACTSGDLPGCSCGPVPGEPPGP
GNRWGGCADNLSYGLLMGAKFSDAPMKVKKTGSQANKLMRLHNSEVGRQALRASLEMKCKCHGVSGSCSIRTCWK
GLQELQDVAADLKTRYLSATKVVHRPMGTRKHLVPKDLDIRPVKDSELVYLQSSPDFCMKNEKVGSHGTQDRQCN
KTSNGSDSCDLMCCGRGYNPYTDRVVERCHCKYHWCCYVTCRRCERTVERYVCK

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FIGURE 2063

GGCACGAGGGGCGGCGGAGCCGACTCGTCGCGGCCGAGGCGCACGCGGTCCGCGCCGGCGTCAGTCTGGGATTGG
CCGGCCCCGCGACTTCCCTCCGCCCCCTGCCAATCGCCGGGGACGACTTCCGTGGGTTTTTCCGGCTCTCCCGCGTC
GCTAAGGAGCGACGGGCTGTGCGCCAGACCCCGAGTTCTCGGTGCGCTCAGCGGCCCGACGCTAGGAGGCCGC
GCTCCGCCCCCGCTACCATCAGGCCCCGAAAGCCTTCTGCTCCTGCTGCTCTTGGGGCTGGTGCAGCTGCTGG
CCGTGGCGGGTGCCGAGGGCCCGGACGAGGATTCTTCTAACAGAGAAAATGCCATTGAGGATGAAGAGGAGGAGG
AGGAGGAAGATGATGATGAGGAAGAAGACGACTTGGAAGTTAAGGAAGAAAATGGAGTCTTGGTCCTAAATGATG
CAAACCTTTGATAATTTTGTGGCTGACAAAGACACAGTGTCTGGAGTTTTATGCTCCATGGTGTGGACATTGCA
AGCAGTTTGCTCCGGAATATGAAAAAATTGCCAACATATTAAAGGATAAAGATCCTCCCATTCCTGTTGCCAAGA
TCGATGCAACCTCAGCGTCTGTGCTGGCCAGCAGGTTTGATGTGAGTGGCTACCCACCATCAAGATCCTTAAGA
AGGGGCGAGGCTGTAGACTACGAGGGCTCCAGAACCAGGAAGAAAATTGTTGCCAAGGTGAGAGAAGTCTCCAGC
CCGACTGGACGCTCCACCAGAAGTCACGCTTGTTGACCAAAGAGAACTTTGATGAAGTTGTGAATGATGCAG
ATATCATTCTGGTGGAGTTTTATGCCCCATGGTGTGGACACTGCAAGAACTTGCCCCGAGTATGAGAAGGCCG
CCAAGGAGCTCAGCAAGCGTTCTCCTCCAATTCCTTGGCAAAGGTGACGCCACCGCAGAAACAGACCTGGCCA
AGAGGTTTGATGTCTCTGGCTATCCACCCCTGAAAAATTTCCGCAAAGGAAGGCCTTATGACTACAACGGCCAC
GAGAAAAATATGGAATCGTTGATTACATGATCGAGCAGTCCGGGCCTCCTCCAAGGAGATTCTGACCTGAAGC
AGGTCCAGGAGTTCTGAAGGATGGAGACGATGTCATCATCATCGGGGTCTTTAAGGGGGAGAGTGACCCAGCCT
ACCAGCAATACCAGGATGCCGCTAACAACTGAGAGAAGATTACAAATTTACCACACTTTACGACAGAAATAG
CAAAGTTCTTGAAAGTCTCCAGGGGCGAGTTGGTTGTAATGCAGCCTGAGAAATCCAGTCCAAGTATGAGCCCC
GGAGCCACATGATGGACGTCCAGGGCTCCACCAGGACTCGGCCATCAAGGACTTCGTGCTGAAGTACGCCCTGC
CCCTGGTTGGCCACCGCAAGGTGTCAAACGATGCTAAGCGCTACACCAGGCGCCCCCTGGTGGTCTGCTACTACA
GTGTGGACTTCAGCTTTGATTACAGAGCTGCAACTCAGTTTTGGCGGAGCAAAGTCTAGAGGTGGCCAAGGACT
TCCCTGAGTACACCTTTGCCATTGCGGACGAAGAGGACTATGTGGGGAGGTGAAGGACCTGGGGCTCAGCGAGA
GTGGGGAGGATGTCAATGCCGCCATCCTGGACGAGAGTGGGAAGAAGTTCGCCATGGAGCCAGAGGAGTTTGACT
CTGACACCTCCGCGAGTTTGTCACTGCTTTCAAAAAGGAAAAGTGAAGCCAGTCATCAATCCCAGCCAGTGC
CCAAGAACAACAAGGGACCCGTCAAGGTGCTGGTGGGAAGACCTTTGACTCCATTGTGATGGACCCCAAGAAGG
ACGTCTCATCGAGTTCTACGCACCATGGTGCGGGCACTGCAAGCAGCTAGAGCCCGTGTACAACAGCCTGGCCA
AGAAGTACAAGGGCCAAAAGGGCCTGGTCATCGCCAAGATGGACGCCACTGCCAACGACGTCCCCAGCGACCGCT
ATAAGGTGGAGGGCTTCCCCACCATCTACTTCGCCCCCAGTGGGGACAAAAGAACCAGTTAAATTTGAGGGTG
GAGACAGAGATCTGGAGCATTGAGCAAGTTTATAGAAGAATGCCACAAAAGTGAAGGAGGACCAAGGAAGAGC
TTTGAAGGCCTGAGGTCTGCGGAAGGTGGGAGGAGGCAGACACCTGCGTGGCCCATGGTTCGGGGCGTCCACGCC
GAGGCCGGCAACAACGACAGTATCTCGGATTCTTTTTTTTTTTTTTTTAAATTTTTTATACTTTGGTGTTCAC
TTCATGCTCTGAATACTGAATAACCATGAATGACTGAATAGTTTAGTCCAGATTTTACAGAGGATACATCTATT
TTTATCATTATTTGGGGTTTGAAAAATTTTTTTTACACCTTCTAATTTCTTTATTCTCAAAGCAGATAATTCT
TCTGTGTGAAAAATGTTTTCTTTTTTAAATTTAAGGTTTAAATTCCTTTGCCAAATCAAGTTGATTTGCTCTTT
GCTTTTTCTGTGTCTGAGAAATGTTGGCGTAGATTTGGCTTCTGGTATGTGTTTCTGATTGCTTCTGTGAGC
ACAAAGTGAGAGCTGCCACTGAGCAGCCCTGCCAGGGGTGCTGTTTCAGGCTGGGCATCGCCAGGCGGCCTCCCT
GCAAACCAAGGGCTGGGGGCAAGGGGCGATGATCCAGGGTCCCCAGGGTGGGCTCAGCTCCAGGGAGAGGCCAC
CCACGTGGCAGCCCCACCTCTTGAGAGCCCCAGTGCCGGAGCAGAAAGGACCCCTGGACCCAGAGGCAGATACTG
CGGGGTGGTAGAAAAGGTAGAGTAGGCTGTGGCAATGGAATAAACACGATTAAAAACGTTAAAAA

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FIGURE 2064

MRPRKAFLLLLLLGLVQLLAVAGAEGPDEDSSNRENAIEDEEEEEEDDDDEEEDDLEVKEENGVLVLNDANFDNF
VADKDTVLLLEFYAPWCGHCKQFAPEYEKIANILKDKDPPIPVAKIDATSASVLASRFDVSGYPTIKILKKGQAVD
YEGSRTQEEIVAKVREVSQPDWTPPEVTLVLTKENFDEVNDADIILVEFYAPWCGHCKKLAPEYEKAAKELSK
RSPPIPLAKVDATAETDLAKRFDVSGYPTLKIFRKGRPYDNGPREKYGIVDYMIEQSGPPSKEILTLKQVQEF
KDGGDVIIIGVFKGESDPAYQQYQDAANNLREDYKFHHTFSTEIAKFLKVSQGGQLVVMQPEKFQSKYEPRSHMMD
VQGSTQDSAIKDFVLKYALPLVGHRKVSNDKRYTRRPLVVVYYSVDFSFYRAATQFWRSKVLEKDFPEYTF
AIADEEDYAGEVKDLGLSESGEDVNAAILDESGKKFAMEPEEFSDTLREFVTAFKKGKLPVIKSQPVPKNNKG
PVKVVVGKTFDSIVMDPKDVLIEFYAPWCGHCKQLEPVYNSLAKKYKGQKGLVIAKMDATANDVPSDRYKVEGF
PTIYFAPSGDKKNPVKFEGGDRDLEHLSKFIEEHATKLSRTKEEL

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FIGURE 2065

GGAATTCCTGATATACACCTGGACCACCACCAATGGATATACAAATGGCAAACAATTTTACTCCGCCCTCTGCA
ACTCCTCAGGGAAATGACTGTGACCTCTATGCACATCACAGCACGGCCAGGATAGTAATGCCTCTGCATTACAGC
CTCGTCTTCATCATTGGGCTCGTGGGAACTTACTAGCCTTGGTCGTCATTGTTCAAACAGGAAAAAATCAAC
TCTACCACCTCTATTCAACAAATTTGGTGATTCTGATATACTTTTACCACCGCTTGCCTACACGAATAGCC
TACTATGCAATGGGCTTTGACTGGAGAATCGGAGATGCCTTGTGTAGGATAACTGCGCTAGTGTTTTACATCAAC
ACATATGCAGGTGTGAACTTTATGACCTGCCTGAGTATTGACCGCTTCATTGCTGTGGTGCACCCTCTACGCTAC
AACAAGATAAAAAGGATTGAACATGCAAAAGGCGTGTGCATATTTGTCTGGATTCTAGTATTTGCTCAGACACTC
CCACTCCTCATCAACCCTATGTCAAAGCAGGAGGCTGAAAGGATTACATGCATGGAGTATCCAACTTTGAAGAA
ACTAAATCTCTTCCCTGGATTCTGCTTGGGGCATGTTTCATAGGATATGTACTTCCACTTATAATCATTCTCATC
TGCTATTCTCAGATCTGCTGCAAACCTTTCAGAACTGCCAAACAAAACCCACTCACTGAGAAATCTGGTGTAAC
AAAAAGGCTCTCAACACAATTATTCTTATTATTGTTGTGTTTGTCTCTGTTTCACACCTTACCATGTTGCAATT
ATTCAACATATGATTAAGAAGCTTCGTTTCTCTAATTTCTGGAATGTAGCCAAAGACATTCGTTCCAGATTTCT
CTGCACTTTACAGTATGCCTGATGAACCTTCAATTGCTGCATGGACCTTTTATCTACTTCTTGCATGTAAAGGG
TATAAGAGAAAAGGTTATGAGGATGCTGAAACGGCAAGTCAGTGTATCGATTTCTAGTGTGTGAAGTCAGCCCT
GAAGAAAATTCACGTGAAATGACAGAAACGCAGATGATGATACATTCCAAGTCTTCAAATGGAAAGTGAATGGA
TTGTATTTTGGTTTATAGTGACGTAAACTGTATGACAACTTTGCAGGACTTCCCTTATAAAGCAAATAAATGT
TCAGCTTCCAATTAGTATTCTTTTATATTTCTTTTATTGGGCACCTTTCCCATCTCCAACTCGGAAGTAAGCCCAA
GAGAACAACATAAAGCAAACAACATAAAGCACATAAATAAATGCAAATAAATATTTTCAATTTTATTTGTAAACGA
ATACACCAAAGGAGGCGCTCTTAATAACTCCCAATGTAAAAAGTTTTGTTTAAATAAAAAATTTAATTATTATT
TCTTGCCAACAAATGGCTAGAAAGGACTGAATAGATTATATATTGCCAGATGTTAATACTGTAACATACTTTTAA
AATAACATATTTCTTAAATCCAAATTTCTCTCAATGTTAGATTTAATTCCTCAATAACACCAATGTTTTGTTTT
GTTTCGTTCTGGGTCATAAACTTTGTTAAGGAACCTTTTGAATAAAGAGCAGGATGCTGC

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FIGURE 2066

MDIQMANNFTPPSATPQGNDCLYAHHSTARIVMPLHYSLVFIIGLVGNLLALVVIVQNRKKINSTTLYSTNLVI
SDILFTTALPTRIAYYAMGFDWRIGDALCRITALVFIYINTYAGVNFMTCLSIDRFIAVVHPLRYNKKRIEHAKG
VCIFVWILVFAQTLPLLINPMSKQEAERITCMEYPNFEETKSLPWILLGACFIGYVLPLIIILICYSQICCKLFR
TAKQNPLTEKSGVNKKALNTIILIIIVFVLCFTPYHVAI IQHMIKKLRF SNFLECSQRHSFQISLHFTVCLMNFN
CCMDFIYFFACKGYKRKVMRMLKRQVSVSISAVKSAPEENSREMTETQMMIHSKSSNGK

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FIGURE 2067

GCGGAGCACAGTCCGCCGAGCACAAGCTCCAGCATCCCGTCAGGGGTTGCAGGTGTGTGGGAGGCTTGAAACTGT
TACAATATGGCTTTCTTGGACTCTTCTCTTTGCTGGTTCTGCAAAGTATGGCTACAGGGGCCACTTTCCCTGAG
GAAGCCATTGCTGACTTGTCTAGTGAATATGTATAATCGTCTTAGAGCCACTGGTGAAGATGAAAATATTCTCTTC
TCTCCATTGAGTATTGCTCTTGCAATGGGAATGATGGAACCTGGGGCCCAAGGATCTACCCAGAAAGAAATCCGC
CACTCAATGGGATATGACAGCCTAAAAAATGGTGAAGAATTTTCTTCTTGAAGGAGTTTTCAAACATGGTAACT
GCTAAAGAGAGCCAATATGTGATGAAAAATTGCCAATTCCTTGTGTTGTGCAAAATGGATTTCATGTCAATGAGGAG
TTTTTGCAATGATGAAAAATATTTTAATGCAGCAGTAAATCATGTGGACTTCAGTCAAAATGTAGCCGTGGCC
AACTACATCAATAAGTGGGTGGAGAATAACACAAACAATCTGGTGAAGATTGGTATCCCCAAGGGATTTTGAT
GCTGCCACTTATCTGGCCCTCATTAAATGCTGTCTATTTCAAGGGGAAGTGAAGTCGCAGTTTAGGCCTGAAAAAT
ACTAGAACCCTTTTCTTTCACTAAAGATGATGAAAGTGAAGTCCAAATTCGAATGATGTATCAGCAAGGAGAATTT
TATTATGGGGAATTTAGTGATGGCTCCAATGAAGCTGGTGGTATCTACCAAGTCCTAGAAATACCATATGAAGGA
GATGAAATAAGCATGATGCTGGTGTGTCCAGACAGGAAGTTTCTTCTGCTACTCTGGAGCCATTAGTCAAAGCA
CAGCTGGTTGAAGAATGGGCAACTCTGTGAAGAAGCAAAAAGTAGAAGTATACCTGCCAGGTTTACAGTGGAA
CAGGAAATTGATTTAAAAGATGTTTTGAAGGCTCTTGAATAACTGAAATTTTCATCAAAGATGCAATTTGACA
GGCTCTCTGATAATAAGGAGATTTTTCTTTCCAAAGCAATTCACAAGTCCTTCTAGAGGTTAATGAAGAAGGC
TCAGAAGCTGCTGTGTCTCAGGAATGATTGCAATTAGTAGGATGGCTGTGCTGTATCCTCAAGTTATTGTCGAC
CATCCATTTTTCTTTCTTATCAGAAACAGGAGAAGTGGTACAATTCTATTTCATGGGACGAGTCATGCATCCTGAA
ACAATGAACACAAGTGGACATGATTTCAAGAAGCTTTAAGTTACTTTTATTGAATAACAAGGAAAACAGTAACTA
AGCACATTATGTTTGCAACTGGTATATATTTAGGATTTGTGTTTTACAGTATATCTTAAGATAATATTTAAATA
GTTCCAGATAAAAACAATATATGTAAATTATAAGTAACTTGTCAAGGAATGTTATCAGTATTAAGCTAATGGTCC
TGTTATGTCATTGTGTTGTGTGCTGTTGTTTAAATAAAAAGTACCTATTGAACATGTG

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FIGURE 2068

MAFLGLFSLLVLQSMATGATFPPEEAIADLSVNMYNRLRATGEDENILFSPLSIALAMGMMELGAQGSTQKEIRHS
MGYDSLKNGEEFSFLKEFSNMVTAKESQYVMKIANSLFVQNGFHVNEEFLQMMKKYFNAAVNHVDFSONVAVANY
INKWVENNTNNLVKDLVSPRDFDAATYLALINAVYFKGNWKSQFRPENTRTFSFTKDDSEVQIPMMYQQGEFY
GEFSDGSNEAGGIYQVLEIPYEGDEISMMLVLSRQEVPLATLEPLVKAQLVEEWANSVKKQKVEVYLPRETVEQE
IDLDVLKALGITEIFIKDANLTGLSDNKEIFLSKAIHKSFLVNEEGSEAAVSGMIAISRMVLYPQVIVDHP
FFFLIRNRRRTGILFMGRVMHPETMNTSGHDFEEL

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FIGURE 2069

GGCGGCAGCGCCCTGCCGACGCCGGGGAGGGACGCAGGCAGGCGGGCGGCAGCGGGAGGCGGCACCCCGGTGCTC
CCCGCGGCTCTCGCGGAGCCCCGCCGCCCGCGGCCATGGCCCCGAAGACCCCGGCACAGCATATATAGCAGTG
ACGAGGATGATGAGGACTTTGAGATGTGTGACCATGACTATGATGGGCTGCTTCCCAAGCTTGGAAGCGTCACT
TGGGGAAAACAAGGTGGACCCGGGAAGAGGATGAAAACTGAAGAAGCTGGTGGAACAGAAATGGAAACAGATGACT
GGAAAGTTATTGCCAATTATCTCCCGAATCGAACAGATGTGCAGTGCCAGCACCGATGGCAGAAAGTACTAAACC
CTGAGCTCATCAAGGGTCCCTTGACCAGAAAGAAGATCAGAGAGTGATAGAGCTTGTACAGAAATACGGTCCGA
AACGTTGGTCTGTTATTGCCAAGCACTTAAAGGGGAGAATTGGAAAACAATGTAGGGAGAGGTGGCATAACCACT
TGAATCCAGAAGTTAAGAAAACCTCCTGGACAGAGAAGAGGAAGACAGAAATTATTTACCAGGCACACAAGAGACTGG
GGAAACAGATGGGCAGAAATCGCAAAGCTACTGCCTGGACGAACTGATAATGCTATCAAGAACCCTGGAATTCTA
CAATGCGTCGGAAGGTGGAACAGGAAGTTATCTGCAGGAGTCTTCAAAAGCCAGCCAGCCAGCAGTGGCCACAA
GCTTCCAGAAGAACAGTCATTTGATGGGTTTTGCTCAGGCTCCGCCTACAGCTCAACTCCCTGCCACTGGCCAGC
CCACTGTTAAACAAGCACTATTCTATTACCACATTTCTGAAGCACAAAATGTCTCCAGTCAATGTTCCATACCCTG
TAGCGTTACATGTAAATATAGTCAATGTCCCTCAGCCAGCTGCCGAGCCATTAGAGACACTATAATGATGAAG
ACCCTGAGAAGGAAAAGCGAATAAAGGAATTAGAATTGCTCCTAATGTCAACCGAGAATGAGCTAAAAGGACAGC
AGGTGTACCAACACAGAACACACATGCAGCTACCCCGGGTGGCACAGCACCACCATTGCCGACCACACCAGAC
CTCATGGAGACAGTGCACCTGTTTTCTGTTGGGAGAACACCCTCCACTCCATCTCTGCCAGCGGATCCTGGCT
CCCTACCTGAAGAAAGCGCCTCGCCAGCAAGGTGCATGATCGTCCACCAGGGCACCATTCTGGATAATGTTAAGA
ACCTCTTAGAATTTGCAGAAACACTCCAATTTATAGATTCTTTCTTAAACACTTCCAGTAACCATGAAAACCTCAG
ACTTGGAAATGCCTTCTTTAACTTCCACCCCCCTCATTGGTCACAAATTGACTGTTACAACACCATTTCATAGAG
ACCAGACTGTGAAAACCTCAAAGGAAAATACTGTTTTTAGAACCCAGCTATCAAAGGTCAATCTTAGAAAGCT
CTCCAAGAACTCCTACACCATTCAAACATGCAGTTCAGCTCAAGAAATTAATACGGTCCCCGTAAGATGCTAC
CTCAGACACCCTCTCATCTAGTAGAAGATCTGCAGGATGTGATCAAAACAGGAATCTGATGAATCTGGATTTGTTG
CTGAGTTTCAAGAAAATGGACCACCCTTACTGAAGAAAATCAAACAAGAGGTGGAATCTCCAAGTATAAATCAG
GAAACTTCTTCTGCTCACACCCTGGGAAGGGGACAGTCTGAATACCCAAGTTCACGCAGACCTCGCCTGTGC
GAGATGCACCGAATATTCTTACAAGCTCCGTTTTAATGGCACCAGCATCAGAAGATGAAGACAATGTTCTCAAAG
CATTTACAGTACCTAAAAACAGGTCCCTGGCGAGCCCTTGCAGCCTTGTAGCAGTACCTGGGAACCTGCATCCT
GTGGAAGATGGAGGAGCAGATGACATCTTCCAGTCAAGCTCGTAAATACGTGAATGCATTCTCAGCCCGGACGC
TGGTCACTGAGAGACATTTCCAGAAAAGCATTATGGTTTTTCCAGAACAGTTCAAGTTGACTTGGGATATATCATTCC
TCAACATGAAACTTTTTCATGAATGGGAGAAGAACCTATTTTTTGTGTGGTACAACAGTTGAGAGCACGACCAAGT
GCATTTAGTTGAATGAAGTCTTCTTGGATTTTCCCAACTAAAAGGATTTTTTAAAAATAAATAACAGTCTTACCT
AAATTATTAGGTAATGAATTGTAGCCAGTTGTTAATATCTTAATGCAGATTTTTTTAAAAAAAACATAAAATGA
TTTATCTGGTATTTTAAAGGATCCAACAGATCAGTATTTTTTCTGTGATGGGTTTTTTGAAATTTGACACATTA
AAAGGTACTCCAGTATTTCACTTTTCTCGATCACTAAACATATGCATATATTTTTTAAAAATCAGTAAAAGCATT
CTCTAAGTGTAGACTTAATACCATGTGACATTTAATCCAGATTGTAATGCTCATTATGGTTAATGACATTGAA
GGTACATTTATTGTACCAAACCATTTTATGAGTTTTCTGTTAGCTTGCTTTAAAAATTATTACTGTAAGAAATAG
TTTTATAAAAAATTATATTTTTTATTCAGTAATTTAATTTTGTAATGCCAAATGAAAACGTTTTTTTGTGCTAT
GGTCTTAGCCTGTAGACATGCTGCTAGTATCAGAGGGGCAGTAGAGCTTGACAGAAAGAAAAGAACTTGGTGT
TAGGTAATTGACTATGCACTAGTATTCAGACTTTTTAATTTTATATATATATACATTTTTTTTCTTCTGCAAT
ACATTTGAAAACCTGTTTGGGAGACTCTGCATTTTTTATTGTGGTTTTTTTGTATTGTGGTTTATACAAGCAT
GCGTTGCACTTCTTTTTTGGGAGATGTGTGTTGTTTCTATGTTTGTGTTTGTGTGAGCCTGACTGTTTT
ATAATTTGGGAGTCTCGATTTGATCCGCATCCCTGTGGTTTTCTAAGTGTATGGTCTCAGAACTGTTGCATGGA
TCCTGTGTTTTGCACTGGGGAGACAGAACTGTGGTTGATAGCCAGTCACTGCCTTAAAGAACATTTGATGCAAGA
TGGCCAGCACTGAACTTTTGAGATATGACGGTGACTTACTGCCTTGAGCAAAATAAAGATGTGCCCTTATTTT

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FIGURE 2070

MARRPRHSIYSSDEDDFEMCDHDYDGLLPKSGKRHLGKTRWTREDEKLKKLVEQNGTDDWKVIANIYLPNRTD
VQCQHRWQKVLNPELIKGPWTKEEDQRVIELVQKYGPKRWSVIAKHLKGRIGKQCRERWHNHLNPEVKKTSWTEE
EDRIIYQAHKRLGNRWAEIAKLLPGRTDNAIKNHWNSTMRKVEQEGYLQESSKASQPAVATSFQKNSHLMGFAQ
APPTAQLPATGQPTVNNDYSYHISEAQNVSSHVPYPVALHVNI VNPQAAAAIQRHYNDEDPEKEKRIKELEL
LLMSTENELKGQQLPTQNHTCSYPGWHSTTIADHTRPHGDSAPVSCLEHHSTPSLPADPGSLPEESASPARCM
IVHQGTILDNVKNLLEFAETLQFIDSFLNTSSNHENSLEMPSTSTPLIGHKLTVTTPFHRDQTVKTQKENTVF
RTPAIKRSILESSPRTPTPFKHALAAQEIKYGPLKMLPQTPSHLVEDLQDVIKQESDESGFVAEFQENGPPLLKK
IKQEVESPTDKSGNFFCSHHWEGDSLNTQLFTQTSPVRDAPNILTSSVLMAPASEDEDNVLKAFTVPKNRSLASP
LQPCSSTWEPASCGKMEEQMTSSSQARKYVNAFSARTLVM

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FIGURE 2071A

ATTACGCGTTGCTGAATCTCCTGTGGACAAACCACCAATAGGCCAGGACTGTCCTGTGGACAGACGGGGTGAGC
CTCTTCTTGIGTCTGGAGATTCTGAAAAGATTTGATCACCAGGAGATTTTTCGGGACATTACCAAACCACTCATT
TTAGTGGCTGCCCTCCGGGTGATGATGGCTGTGTGAACGACTGCCATGCCCCACCGGAAGCTTGAGAGCGTGGGGA
GCGGCATGTTGGACCATAGGGTGAGACCAGGTCTGTCCCTCACAGCCAGGAGCCCCGAGAGCGAGGACATGGAGC
TGCCCTTGAGGGCTATGTGCCGAGGGCCTGGAGCTGGCTGCCCTGCCGCCAGAGAGCCCCGCGCCAGAGGAAC
AGGAGTGCCACAACCACAGCCCCGATGGGGACTCCAGCTCTGACTACGTGAACAACACCTCTGAGGAGGAGGACT
ATGACGAGGGCCTCCCTGAGGAGGAGGAGGGCATCACCTACTACATCCGCTACTGCCCTGAGGACGACAGCTACC
TAGAGGGCATGGACTGCAACGGGGAGGAGTACCTGGCCCCACAGTGACACCCCTGTGGACACTGATGAGTGCCAGG
AGCGGTGGAGGAGTGGACGGACTCGCGGGGCCCGCACCCCCACGGCCACGAGGCTGAAGGCAGCCAGGACTACC
CAGACGGCCAACCTGCCCATTCGGAGGATGAGCCCTCCGTCTTGGAGGCCATGACCAGGAAGAAGATGGTCACT
ACTGTGCCAGCAAAGAGGGCTACCAGGACTACTACCCGAGGAGGCCAACGGGAACACCGCGCCTCCCCCTACC
GCCTGAGGCGTGGGGATGGGGACCTGGAGGACCAGGAGGAGGACATTGACCAGATCGTGGCAGAGATCAAGATGA
GTCTGAGCATGACCAGCATCACCAGCGCCAGTGAGGCCAGCCCCGAGCATGGGCCTGAGCCAGGGCCTGAGGACT
CTGTAGAGGCTGCCACCCATCAAGGCCAGCTGCAGCCCCAGCAGGCACGAGGCGAGGCCCAAGTCGCTGAACC
TCCTTCCCCGAGGCCAAGCACCCCGAGACCCCCAGAGAGGCTTCAAGCCCCAAGACCAGGACCCCAAGAGAGGGC
TGAAGTGGCCCCACGAGCAGGTTTGCAATGGTCTGGAGCAGCCAAGGAAGCAGCAGCGCTCTGATCTCAATGGAC
CTGTTGACAATAACAACATTCCAGAGACAAAGAAGGTGGCATCATTTCAGTTTGTGGCTGTTCCAGGGCCCT
GCGAACCAGAAGACCTCATCGACGGGATCATCTTTGCTGCCAATTACCTGGGGTCCACCCAGCTGCTATCAGAAC
GGAACCCCTTCCAAAAACATCAGAATGATGCAAGCGCAGGAGGCCGTACGCCGGGTCAAGAGGATGCAAAAGGCTG
CTAAGATCAAGAAAAAGCGAATTCTGAGGGGGATGCCCAGACGCTGACGGAAGTGGACCTCTTCATTTCCACCC
AGAGGATCAAGGTTTTAAATGCAGACACGCAGGAACCATGATGGACCACGCCTTGCGTACCATCTCCTACATCG
CCGACATTGGGAACATTGTAGTGCTGATGGCCAGACGCCGATGCCCGGTACGCCTCTCAGGACTGCATCGAGA
CCACGCCCCGGGGCCAGGAAGGCAAGAAGCAGTATAAGATGATCTGCCATGTGTTGAGTTCGGAGGATGCCCAGC
TCATCGCCAGTCTATCGGCCAGGCCTTCAGCGTGGCCTACCAGGAGTTCCTGCGAGCCAATGGCATCAACCCCG
AAGACTTGAGCCAGAAGGAATACAGCGACATCATCAACACCCAGGAGATGTACAACGACGACCTCATCCACTTCT
CAAACCTCGGAGAACTGCAAGGAGCTGCAGCTGGAGAAGCACAAAGGGCGAGATCTGGGCGTGGTGGTGGTGGAGT
CGGGCTGGGGCTCCATCCTGCCACGGTGATCCTGGCCAACATGATGAATGGCGGCCCGGCTGCCCGCTCGGGGA
AGCTGAGCATCGGGGACCAGATCATGTCCATCAATGGCACCAGCCTGGTGGGGTGGCCCTCGCCACCTGCCAAG
GCATCATCAAGGGCCTGAAGAACCAGACACAGGTGAAGCTCAACATTGTGAGCTGTCCCCCGGTACCAACGGTCC
TTATCAAGCGGCCAGACCTCAAGTACCAGCTGGGCTTCAGCGTGAGAATGGAATTATCTGCAGCCTCATGAGAG
GGGGCATTGCTGAGCGAGGGGGCGTCCGTGTGGGCCACCGCATCATCGAGATCAACGGGCAGAGCGTGGTGGCCA
CAGCCCACGAGAAGATAGTCCAAGCTCTGTCCAACCTCGGTGAGAGATCCACATGAAGACCATGCCCGCCGCCA
TGTTTCAGGCTCCTCACGGGTGAGGAGACCCCGCTGTACATCTAGGCCACCCAGCCTGGCCACGCAGCCAGGACA
CCGGGCAGGGCCGCGGGGCCAGAGGAGCTGGGAGCCGGGCCGAGACTTGACCCCGACGCCACAGCCAGCCA
CGGACGCTGGCTCCCCAAAGGGTGTGCCCTCACCACCCACTTGATTTTTTTTCAATTTGCCAAAAAGGGGTATGTC
TTTATCAAAGGAGAGTCACAGAACAAATGTTTGTGTTGTAAAGCGTTCCAAGTATTTTGCCACGTTCTGGACTGTC
TTCTCCCTGCACAAGCCAGGGTGTGTCTCGGTAGCTGTGCGTGGTGTGGAGTGTGTCTTTCTCCCTGAAGCT
GTGCGGAGCGAACTGGCGCCTCCGAGGGACCGGCTCCCGGGCAGGGCAGCCGTACCCCTGCCTCCCGCCCCC
TTGGCTGGGACGTCTGGGGTCTGTGGGGCCCCACAATGGTCCCAAACAGCTGCCCTCTGCCACTGACTGCAGGG
ACACGGGCAGCCTGGCTCCCAGGACACGACTTGTAAATGAAAGTTGGGGACATGTGATTGATTGATTGATTGATT
GTAAATAAAGGATGATGGCCACAACATGAAAACCTCATATTTATTAGATGCTATTATTACTGTTTGGACTTTTA
TTTTGGCAGGCTTTTTTCCAGACTCTAGGGTTTTTCCAATGTGACTAATGACCACACCTGCCTCTCCCGTCGTCTC
TTCTGGGCACCTCCCACCCGGCTGCATACCCGGGCAGGGCTCCACAGAGACAAGGAGGGGCACAGGTGCTGCC
CCCTCTTTAAATCGATCTACACACATCCACGCATGCGACCCGAGGAAACGAAACCCACTCTAGAAAACGCG
ACCTTGCGCGCACCTAAAGCAGCCAGCCGTGAGTGACAGCCCTTGCCAGCGTGGCGCAGTGGCCCTGAGCAGT
AGTGGCATGTGTGATGATCAAGTCGGATCTAGTCCAGCTCGGTTTATTAGCGATCCATGTAATCTGACGTCATCT
TGCTCTGAAGTCTCTTTTTTTGGCCAGGCCTTGAGAATACACTGTGACTTAAGAAGCCTTACCACGCAGTAAC
TAAAGCTTTAGGATGACTGTATTGAGGAGTGCCGTGTGTTGCATGCAGCTACCCGTAGGAAGACTTCGCGCATA

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FIGURE 2071B

TCACTAATAAACCTGAAGTCGTGATGA

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FIGURE 2072

MAHRKLESVSGSMLDHRVRPGVPVPHSQEPESSEDMELPLEGYVPEGLELAALRPESPAPEEQECHNHSPDGDSSSD
YVNTSEEDYDEGLPEEEEGITYYIRYCPEDDSYLEGMDCNGEYLAHSAHPVDTDECQEAVEEWTD SAGPHPH
GHEAGSQDYPDRQLPIPEMSPPSLRPMTRKKMVTMCQQRGLPGLLPRGGQREHRLPLPPEAGDGDLEDQEEDI
DQIVAEIKMSLSMTSITSASEASPEHGPEPGPEDSVEACPPIKASCSPSRHEARPKSLNLLPEAKHPGDPQRGFK
PKTRTPEERLKWPHQVCNGLEQPRKQQRSDLNQPVNNDNNIPETKKVASFPFVAVPGPCPEDLIDGIIFAANY
LGSTQLLSERNPSKNIRMMQAEAVSRVKRMQKAAKIKKKANSEGAQTLTEVDLFISTQRIKVLNADTQETMMD
HALRTISYIADIGNIVVLMARRRMPSASQDCIETTPGAQEGKKQYKMICHVFESDAQLIAQSIGQAFSVAYQE
FLRANGINPEDLSQKEYSDIINTQEMYNDLIHFSNSENCKELQLEKHKGEILGVVVVESGWGSILPTVILANMM
NGCPAARSGKLSIGDQIMSINGTSLVGLPLATCQGIKGLKNQTQVKLNIVSCPPVTTVLIKRPDLKYQLGFSVQ
NGIICSLMRGGIAERGGVRVGHRIEINGQSVVATAHEKIVQALSNSVGEIHMKTMPAAMFRLLTGQETPLYI

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FIGURE 2073

GAATTCCATTTTAAAGTTATACAAAACGATTACCATAAGTGC GGTCGACTGCTTTTATTTTACGTTGTGTGTGT
TGAAAAATGCTAAAACATCAGTCTACAATTCTATATATTGTTATTAAAGATTAATCCAACCAGCAACCCAAAGGA
CATATAAGCGATTTCCTACTATTGCATCAGAGCACTCGGCAGGAAAGGCCTAGCCACGGGGAAACATTAGAAGCTAC
AGAAGCATTGCAGAGAAGAGAAGATCCCCCGCGCGTCCGCGCTGTTCTAAGGAGAGAAGTGGGGGCCCCCAGG
CTCGCGCGTGGAGCGAAGCAGCATGGGCAGTCGGTGC GCGCTGGCCCTGGCGGTGCTCTCGGCCTTGCTGTGTCA
GGTCTGGAGCTCTGGGGTGTTCGAACTGAAGCTGCAGGAGTTCGTCAACAAGAAGGGGGCTGCTGGGGAACCGCAA
CTGCTGCCGCGGGGGCGCGGGGCCACCGCCGTGCGCCTGCCGGACCTTCTTCCGCGTGTGCTCAAGCACTACCA
GGCCAGCGTGTCCCCGAGCCGCCCTGCACCTACGGCAGCGCCGTACCCCCGTGCTGGGCGTCGACTCCTTCAG
TCTCCCCGACGGCGGGGGCGCGGCGACTCCGCGTTCAGCAACCCCCATCCGCTTCCCCCTTCGGCTTCACCTGGCCGGG
CACCTTCTCTCTGATTATTGAAGCTCTCCACACAGATTCTCCTGATGACCTCGCAACAGAAAAACCCAGAAAGACT
CATCAGCCGCGCTGGCCACCCAGAGGCACCTGACGGTGGGCGAGGAGTGGTCCCAGGACCTGCACAGCAGCGGCCG
CACGGACCTCAAGTACTCCTACCGCTTCGTGTGTGACGAACACTACTACGGAGAGGGCTGCTCCGTTTTCTGCCG
TCCCCGGGACGATGCCTTCGGCCACTTCACCTGTGGGGAGCGTGGGGAGAAAGTGTGCAACCTTGCTGGAAAGG
GCCCTACTGCACAGAGCCGATCTGCCCTGCTGGATGTGATGAGCAGCATGGATTTTGTGACAAACCAGGGGAATG
CAAGTGCAGAGTGGGCTGGCAGGGCCGGTACTGTGACGAGTGTATCCGCTATCCAGGCTGTCTCCATGGCACCTG
CCAGCAGCCCTGGCAGTGCAACTGCCAGGAAGGCTGGGGGGGCGCTTTTCTGCAACCAGGACCTGAACTACTGCAC
ACACCATAAAGCCCTGCAAGAATGGAGCCACCTGCACCAACACGGGGCCAGGGGAGCTACACTTGCTCTTGCCGGCC
TGGGTACACAGGTGCCACCTGCGAGCTGGGGATTGACGAGTGTGACCCAGCCCTTGTAAGAACGGAGGGAGCTG
CACGGATCTCGAGAACAGTACTCCTGTACCTGCCACCCGGCTTCTACGGCAAAATCTGTGAATTGAGTGCCAT
GACCTGTGCGGACGGCCCTTGCTTTAACGGGGTTCGGTGTCTCAGACAGCCCCGATGGAGGGTACAGCTGCCGCTG
CCCCGTGGGCTACTCCGGCTTCAACTGTGAGAAGAAAATTGACTACTGCAGCTCTTACCCTGTTCTAATGGTGC
CAAGTGTGTGGACCTCGGTGATGCCTACCTGTGCCGCTGCCAGGCCGGCTTCTCGGGGAGGCACTGTGACGACAA
CGTGGACGACTGCGCCTCTCCCCGTGCGCCAACGGGGGCACCTGCCGGGATGGCGTGAACGACTTCTCTGCAC
CTGCCCCGCTGGCTACACGGGCAGGAAGTGCAGTCCCCCGTCAGCAGGTGCGAGCAGCACCCCTGCCACAATGG
GGCCACCTGCCACGAGAGGGGCCACGGCTATGTGTGCGAGTGTGCCGAGGCTACGGGGGTCCCAACTGCCAGTT
CCTGCTCCCCGAGCTGCCCCCGGGGCCAGCGGTGGTGGACCTCACTGAGAAGCTAGAGGGCCAGGGCGGGCCATT
CCCCGTGGGTGGCCGTGTGCGCCGGGGTCTCCTTGTCTCATGCTGCTGCTGGGCTGTGCCGCTGTGGTGGTCTG
CGTCCGGCTGAGGCTGCAGAAGCACCGGCCCCAGCCGACCCCTGCCGGGGGAGACGGAGACCATGAACAACCT
GGCCAACTGCCAGCGTGAGAAGGACATCTCAGTCAGCATCATCGGGGCCACGCAGATCAAGAACACCAACAAGAA
GGCGGACTTCCACGGGGACCACAGCGCCGACAAGAATGGCTTCAAGGCCCGCTACCCAGCGGTGGACTATAACCT
CGTGCAGGACCTCAAGGGTGACGACACCGCCGTGAGGGACGCGCACAGCAAGCGTGACACCAAGTGCCAGCCCCA
GGGCTCCTCAGGGGAGGAGAAGGGGACCCCGACCACACTCAGGGGTGGAGAAGCATCTGAAAGAAAAAGCCGGA
CTCGGGCTGTTCAACTTCAAAGACACCAAGTACCAGTCCGTGTACGTACATATCCGAGGAGAAGGATGAGTGCCT
CATAGCAACTGAGGTGTAAAATGGAAGTGAGATGGCAAGACTCCCGTTTCTCTTAAAAAAGTAAAATTCCAAGG
ATATATGCCCCAACGAATGCTGCTGAAGAGGAGGGAGGCTCGTGGACTGCTGCTGAGAAACCGAGTTCAGACCG
AGCAGGTTCTCCTCCTGAGGTCTCGACGCTGCCGACAGCCTGTGCGGGCCCGGCCGCTGCGGCACTGCCTTC
CGTGACGTGCGCGTTGCACTATGGACAGTTGCTCTTAAGAGAATATATATTTAAATGGGTGAAGTGAATTACGCA
TAAGAAGCATGCACTGCCTGAGTGTATATTTGGATTCTTATGAGCCAGTCTTTTCTTGAATTAGAAACACAAAC
ACTGCCTTTATTGTCCTTTTTGATACGAAGATGTGCTTTTTCTAGATGGAAGATGTGTGTTATTTTTTGATT
TGTAATAATATTTTTCATGATATCTGTAAAGCTTGAGTATTTTGTGATGTTGTTTTTATAATTTAAATTTTGG
TAAATATGTACAAAGGCACCTTCGGGCTATGTGACTATATTTTTTGTATATAAATGTATTTATGGAATATGTG
CAAATGTTATTTGAGTTTTTTACTGTTTTGTTAATGAAGAAATTCCTTTTTAAATATTTTTTCCAAAATAAATTT
TATGAGGAATTC

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FIGURE 2074

MGSRCALALAVLSALLCQVWSSGVFELKLQEFVNKKGLLGNRNCCRGAGPPPCACRTFFRVCLKHYQASVSPEP
PCTYGSVTPVVGVDSPSLPDGGGADSAF SNP IRFPFGFTWPGTFSLIIEALHTDSPDDLATENPERLISRLATQ
RHLTVGEEWSQDLHSSGRTDLKYSYRFVCDHEHYGEGCSVFCRPRDDAFGHFTCGERGEKVCNPGWKGPYCTEPI
CLPGCDEQHGFCDKPGECKCRVGWQGRYCDECIRYPGCLHGTCCQFPWQCNCQEGWGGGLFCNQDLNYCTHHKPCKN
GATCTNTGQGSYTCSCRPGYTGATCELGIDECDFSPCKNGGSCDLENSYSCTCPPGFYKGICELSAMTCADGPC
FNGGRCSDSPDGGYSCRCVPVGYSGFNCEKKIDYCSSSPCSNGAKCVDLGDAYLCRCQAGFSGRHCDNVDDCASS
PCANGGTCRDGVNDFSTCPPGYTGRNCSAPVSRCEHAPCHNGATCHERGHGYVCECARGYGGPNCQFLLPELPP
GPAVVDLTEKLEGQGGFPFWAVCAGVILVLMLLGCAAVVVCVRLRLQKHRPPADPCRGETETMNNLANCQREK
DISVSIIGATQIKNTNKKADFHGDHSADKNGFKARYPAVDYNLVQDLKGDDTAVRDAHSKRDTKCQPGSSGEEK
GTPTTLRGGEASERKRPDSGCSTSKDTKYQSVYVISEEKDECVIATEV

AAAAAA

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FIGURE 2076

MVADPPRDSKGLAAAEPTANGGLALASIEDQGAAAGGYCGSRDQVRRCLRANLLVLLTVVAVVAGVALGLGVSGA
GGALALGPERLSAFVFPGELELLRLLRMIILPLVVCSLIGGAASLDPGALGRLGAWALLFFLVTTLLASALGVGLA
LALQPGAASAAINASVGAAGSAENAPSKEVLDSFLDLARNIFPSNLVSAAFRSYSTTYEERNITGTRVKVPVGQE
VEGMNIGLVVFAIVFGVALRKLGPGEELLIRFFNSFNEATMVLVSWIMWYAPVGIMFLVAGKIVEMEDVGLLFA
RLGKYILCCLLGHAHGLLVPLIYFLFTRKNPYRFLWGIVTPLATAFGTSSSSATLPLMMKCVEENNGVAKHIS
RFILPIGATVNMDGAALFQCVAAVFIAQLSQQSLDFVKIITILVTATASSVGAAGIPAGGVTLAIILEAVNLPV
DHISLILAVDWLVDRSCTVLNVEGDALGAGLLQNYVDRTESRSTEPELIQVKSELPLDPLVPTEEGNPLLKHYR
GPAGDATVASEKESVM

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FIGURE 2077

CAGGCCAGGACTCCACAAGGCTGGTCCCTGCCCTGGAGCAACTTAAACAGGCCCTCTGGCCAGCCTGGAACCTT
GAGATGGCCTCCAGCTCAGGCAGCAGTCTCGCCCGGCCCTGATGAGAATGAGTTTCCCTTTGGGTGCCCTCCC
ACCGTCTGCCAGGACCCAAAGGAGCCCAGGGCTCTCTGCTGTGCAGGCTGTCTCTCTGAGAACCCGAGGAATGGC
GAGGATCAGATCTGCCCCAAATGCAGAGGGGAAGACCTCCAGTCTATAAGCCCAGGAAGCCGTCTTCGAACTCAG
GAGAAGGCTCACCCGAGGTGGCTGAGGCTGGAATTGGGTGCCCTTTGCAGGTGTGGCTGTCTCTTCAAGGGA
AGCCACAGTCTGTGCAAGAGCATGAGGTACCTCCAGACCTCCACCTAAACCTGTGTGGGGTTTCATGAAA
CAGTGGAAAGCCCGCTGGGCTGTGGCCTGGAGTCTGGGCCCATGGCCCTGGAGCAGAACCTGTGACACCTGCAG
CTGCAGGCAGCCGTGGAAGTGGCGGGGACCTGGAGGTGATTGCTACCGGGCACCCGTGCTCCGAGAGCCAGGAG
GAGCTGGCCCTGCAGCACTTCATGAAGGAGAAGCTTCTGGCTGAGCTGGAGGGGAAGCTGCGTGTGTTTGAGAAC
ATTGTTGCTGTCTCTCAACAAGGAGGTGGAGGCCCTCCACCTGGCCCTGGCCACCTCTATCCACCAGAGCCAGCTG
GACCGTGAGCGCATCTGAGCTTGGAGCAGAGGGTGGTGGAGCTTCAGCAGACCCCTGGCCCAGAAAGACCAGGCC
CTGGGCAAGCTGGAGCAGAGCTTGCCTCATGGAGGAGGCCCTCTTCGATGGCACTTTCTGTGGAAGATCACC
AATGTACACAGCGGGTGCCATGAGTGGCCTGTGGCAGGACCGTCAGCCTCTTCTCCCCAGCCTTCTACACTGCC
AAGTATGGCTACAAGTTGTGCTGCGGCTGTACCTGAATGGAGATGGCACTGGAAAGAGAACCCATCTGTGCTC
TTCATCGTGATCATGAGAGGGGAGTATGATGCGGTGCTGCCGTGGCCTTTCCGGAACAAGGTACCTTCATGCTG
CTGGACCAGAACAACCGTGAGCAGGCCATTGACGCTTCCGGCCTGACCTAAGCTCAGCGTCTTCCAGAGGCC
CAGAGTGAACCAACGTGGCCAGTGGATGCCCACCTTCTTCCCCCTCAGCAAACCTGAGTCACCCAAGCAGGCC
TACGTGAAGGACGACACAATGTTCTCAAGTGCATTGTGGAGACCAGCACTTAGGGTGGGCGGGGCTCCTGAGGG
AGCTCCAACCTCAGAAGGGAGCTAGCCAGAGGACTGTGATGCCCTGCCCTTGGCACCCAAGACCTCAGGGCACAAA
GATGGGTGAAGGCTGGCATGATCCAAGCAAGACTGAGGGGTGCACTTCGGGCTGGCCATCTGGTTAGGATGGCAG
GACGTGGGCTGGGCCCACAAAGGCAAAGGGTCCAGAAGGAGACAGGCAGAGCTGCTCCCCCTGTCACGGACCATG
CGACACTGGGAGGCCAGTGAGCCACTCCGGCCCCGAATGTTGAGGTGGACTCTCACCAAATGAGAAGAAAATGGA
ACCAGGCTTGGAACCGTAGGACCCAAGCAGAGAAGCTCTCGGGCTAGGAAGATCTCTGCAGGGCCGCCAGGGAGA
CCTGGACACAGGCCTGCTCTCTTTTCTCCAGGGTCAGAAACAGGACCGGGTGAAGGGATGGGGTGCCAGTTTG
AATGCAGTCTGTCCAGGCTCGTCATTGGAGGTGAACAAGCAAACCCAGAGGGCTCCACTAGGACTTCAAATTGGG
GGTTGGATTTGAAGACTTTTAAGTTTCTTCCAGCCCAGAAAGTCTCTCATTCTAGGCCTCCTGGCCCAGGTGAG
TCCTAGAGCTACAGGGGTTCTGGAACATTCAAGAGCTTCTGTCTCCAGCTCCTCACTACCTTCAGTAACC
CCCACTGGACTGACCTGGTCCACAGGGCACCTGCCACCCTGGGCTGGCAGCTCAGCTTCCCCAACACGCAGGAG
CACACCCAGCCCCACATCTGTGCTCCATCAGCTAAACACCACGTCATTTCATGCAGGTGAAACCCAGTCACT
GTGAGCTCCAGGTGCAGCCAGAGGCACCTCAAGAAGAAGAGGGGCATAAACTTTCTCTTCTGCTAGAGGCC
CCACCTTTGGTGCTTTCCAGAATCCCATAACACCTGATTAAGTGAAGGCATCCACTTCTTTCAGCAGACTGATCAG
GACCTCCAAGCCACTGAGCAATGTATAACCCCAAAGAAATAATTTTGAATCTCTTTTGAAGTTTCTCTAAAAA
AAAAAAAAAAAA

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FIGURE 2078

MASSSGSSPRPAPDENEFFPGCPPTVCQDPKEPRALCCAGCLSENPRNGEDQICPKCRGEDLQSI SPGSRLRTQE
KAHPEVAEAGIGCPFAGVGCSFKGSPQSVQEHEVTSQTSHLNLLLGFMKQWKARLGCGLESGPMALEQNLSDLQL
QAAVEVAGDLEVDCYRAPCSESQEELALQHFMKEKLLAELEGKLRVFENIVAVLNKEVEASHLALATSIHQSQLD
RERILSLEQRVVELQQT LAQKDQALGKLEQSLRLMEEASFDGTF LWKITNVTRCHESACGR TVSLFSPA FYTAK
YGYKLCLRLYLNGDGTGKRTHLSLFIVIMRGEYDALLPWPFRNKVTFMLLDQNNREHAIDAFRDLSSASFQRPQ
SETNVASGCPLFFPLSKLQSPKHAYVKDDTMFLKCIVETST

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FIGURE 2079

CCTGGCCCGGTGCGGGTCGCGGGCTCTTTCCAGCTCCTGGCAGCCGGGCACCCGAAGGAACGGGTGCTGCAACGAC
GCAGCTGGACCTGGCCAGCCATGGACCGAAAAGTGGCCCGAGAATTCCGGCATAAGGTGGATTCTTCTGATTGAA
AATGATGCAGAGAAGGACTATCTCTATGATGTGCTGCGAATGTACCACCAGACCATGGACGTGGCCGTGCTCGTG
GGAGACCTGAAGCTGGTCATCAATGAACCCAGCCGTCTGCCTCTGTTTGATGCCATTCCGCCGTGATCCCACTG
AAGCACCAGGTGGAATATGATCAGCTGACCCCCGGCGCTCCAGGAAGCTGAAGGAGGTGCGTCTGGACCGTCTG
CACCCCGAAGGCCTCGGCCTGAGTGTGCGTGGTGGCCTGGAGTTTGGCTGTGGGCTCTTCATCTCCACCTCATC
AAAGGCGGTGAGGCAGACAGCGTCGGGCTCCAGGTAGGGGACGAGATCGTCCGGATCAATGGATATTCCATCTCC
TCCTGTACCCATGAGGAGGTATCAACCTCATTGCAACCAAGAAAAGTGTGTCCATCAAAGTGAGACACATCGGC
CTGATCCCCGTGAAAAGCTCTCCTGATGAGCCCCCTCACTTGGCAGTATGTGGATCAGTTTGTGTGCGAATCTGGG
GGCGTGGCAGGCAGCCTGGGCTCCCCCTGGAAATCGGGAAAACAAGGAGAAGAAGGTCTTCATCAGCCTGGTAGGC
TCCCGAGGCCTTGGCTGCAGCATTTCAGCGGCCCATCCAGAAGCCTGGCATCTTTATCAGCCATGTGAAACCT
GGCTCCCTGTCTGCTGAGGTGGGATTGGAGATAGGGGACCAGATTGTGCAAGTCAATGGCGTCGACTTCTCTAAC
CTGGATCACAAGGAGGCTGTAAATGTGCTGAAAAATAGCCGCAGCCTGACCATCTCCATTGTAGCTGCAGCTGGC
CGGGAGCTGTTTCATGACAGACCGGGAGCGGCTGGCAGAGGCGCGGCAGCGTGAGCTGCAGCGGCAGGAGCTTCTC
ATGCAGAAGCGGCTGGCGATGGAGTCCAACAAGATCCTCCAGGAGCAGCAGGAGATGGAGCGGCAAAGGAGAAAA
GAAATTGCCCAGAAGGCAGCAGAGGAAAATGAGAGATACCGGAAGGAGATGGAACAGATTGTAGAGGAGGAAGAG
AAGTTTAAGAAGCAATGGGAAGAAGACTGGGGCTCAAAGGAACAGCTACTCTTGCTTAAACCATCACTGCTGAG
GTACACCCAGTACCCCTTCGCAAGCCAAAGTATGATCAGGGAGTGGAACTGAGCTCGAGCCCGCAGATGACCTG
GATGGAGGCACGGAGGAGCAGGGAGAGCAGGATTTCCGGAATATGAGGAAGGCTTTGACCCCTACTCTATGTTT
ACCCAGAGCAGATCATGGGGAAGGATGTCCGGCTCTACGCATCAAGAAGGAGGGATCCTTAGACCTGGCCCTG
GAAGGCGGTGTGGACTCCCCATTGGGAAGGTGGTCGTTTCTGCTGTGTATGAGCGGGGAGCTGCTGAGCGGCAT
GGTGGCATTGTGAAAGGGGACGAGATCATGGCAATCAACGGCAAGATTGTGACAGACTACACCTGGCTGAGGCT
GACGCTGCCCTGCAGAAGGCCTGGAATCAGGGCGGGGACTGGATCGACCTTGTGGTTGCCGTCTGCCCCCAAAG
GAGTATGACGATGAGCTGACCTTCTTGCTGAAGTCCAAAAGGGGAAACCAAATTACGCGTTAGGAAACAGTGAG
CTCCGGCCCCACCTCGTGAACACAAAGCCTCGGACCAGCCTTGAGAGAGGCCACATGACACACACCAGATGGCAT
CCTTGGGACCTGAATCTATCACCAGGAATCTCAAACCTCCCTTTGGCCCTGAACCAGGGCCAGATAAGGAACAGC
TCGGGCCACTTTTTTGAAGGCCAATGTGGAGGAAAGGGAGCAGCCAGCCGTTTGGGAGAAGATCTCAAGGATCCA
GACTCTCATTCTTTCTCTGCGCCAGTGAATTTGGTCTCTCCAGCTTTGGGGGACTCCTTCTTGAACCCTAA
TAAGACCCCACTGGAGTCTCTCTCTCCATCCCTCTCTGCCCTCTGCTCTAATTGCTGCCAGGATTGTCAC
TCCAAACCTTACTCTGAGCTCATTAATAAAATAAACAGATTTATTTTCCAGCTTAAAAAA

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FIGURE 2080

MDRKVAREFRHKVDFLIENDA EKDYLDVLRMYHQTM DVAVLVGDLKLVINEPSRLPLFDAIRPLIPLKHQVEYD
QLTPRRSRKLKEVRLDRLHPEGLGLSVRGGLEFGCGLFISHLIKGGQADSVGLQVGDEIVRINGYSISSCTHEEV
INLIRTKKTVSIKVRHIGLIPVKSSPDEPLTWQYVDQFVSESGGVRGSLGSPGNRENKEKKVFISLVGSRGLGCS
ISSGPIQKPGIFISHVKPGSLSAEVGLEIGDQIVEVNGVDFSNLDHKEAVNVLKNSRSLTISIVAAAGRELFMTD
RERLAEARQRELQRQELLMQKRLAMESNKILQEQQEMERQRRKEIAQKAAEENERYRKEMEQIVEEEEEKFKQWE
EDWGSKEQLLLPKTITA EVHPVPLRKPKYDQGVPELEPADDLDGGTEEQGEQDFRKYEEGFD PYSMFTPEQIMG
KDVRLRLRIKKEGSLDLAEGGVDSPIGKVVVSAVYERGAAERHGGIVKGDEIMAIN GKIVTDYTLAEADAALQKA
WNQGGDWIDL VVAVCPPKEYDDELTFLLKSKRGNQIHALGNSEL RPHLVNTKPRTSLERGHMTHTRWHPWDLNLS
PRNLKLPLALNQGQIRNSSGHFFEGQCGGKAASRLGEDLKDPDSHSFPLAQ

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FIGURE 2081

CAGAGGGCTGCTGGCTGGCTAAGTCCCTCCCGCTCCCGGCTCTCGCCTCACTAGGAGCGGCTCTCGGTGCAGCGG
GACAGGGCGAAGCGGCTGCGCCACGGAGCGCGGACACTGCCCGGAAGGGACCGCCACCCTTGCCCCCTCAGC
TGCCCACTCGTGATTTCAGCGGCTCCGCGCGCGCACGATGCCCTCGGCCACCAGCCACAGCGGGAGCGGCAGC
AAGTCGTCCGGACCGCCACCGCGCTCGGGTTCTCCGGGAGTGAGGCGGCGCGGGAGCCGGGGCGCGCGCGG
GCTTCTCAGCACCCCGCAACCGGCACCGGCGCTGTCCAGACCGAGGCCATGAAGCAGATTCTCGGGGTGATCGAC
AAGAACTTCGGAACCTGGAGAAGAAAAAGGGTAAGCTTGATGATTACCAGGAACGAATGAACAAAGGGGAAAGG
CTTAATCAAGATCAGCTGGATGCCGTTTCTAAGTACCAGGAAGTCACAAATAATTTGGAGTTTGCAAAGAATTA
CAGAGGAGTTTCATGGCACTAAGTCAAGATATTAGAAAAACAATAAAGAAGACAGCACGTCGGGAGCAGCTTATG
AGAGAAGAAGCTGAACAGAAACGTTTAAAACTGTACTTGAGCTACAGTATGTTTTGGACAAATTGGGAGATGAT
GAAGTGGGACTGACCTGAAACAAGGTTTGAATGGAGTGCCAATATTGTCCGAAGAGGAGTTGTCAATTGTTGGAT
GAATCTATAAGCTAGTAGACCTGAACGGGACATGAGCTTGAGGTTGAATGAACAGTATGAACATGCCTCCATT
CACCTGTGGGACCTGCTGGAAGGGAAGGAAAAACCTGTATGTGGAACCACCTATAAAGTTCTAAAGGAAATTGTT
GAGCGTGTTTTTTCAGTCAAACTACTTTGACAGCACCCACAACCACAGAATGGGCTGTGTGAGGAAGAAGAGGCA
GCCTCAGCACCTGCAGTTGAAGACCAGGTACCTGAAGCTGAACCTGAGCCAGCAGAAGAGTACACTGAGCAAAGT
GAAGTTGAATCAACAGAGTATGTAAATAGACAGTTTATGGCAGAAACACAGTTCACCAAGTGGTGAAGGAGCAG
GTAGATGAGTGGACAGTTGAAACGGTTGAGGTGGTAAATTCACCTCAGCAGCAACCTCAGGCTGCATCCCCTTCA
GTACCAGAGCCCCACTCTTTGACTCCAGTGGCTCAGGAGATCCCCCTTGAGAGAAGACAGCGAGTACAAGACCTT
ATGGCACAAATGCAGGGTCCCTATAATTTACATACAGGATTCAATGCTGGATTTTGAATCAGACACTTGATCCT
GCCATTGTATCTGCACAGCCTATGAATCCAACACAAAACATGGACATGCCCCAGCTGGTTTGCCCTCCAGTTTAT
TCTGAATCTAGACTTGCTCAGCCTAATCAAGTTTCTGTACAACCAGAAGCGACACAGGTTCTTTGGTATCATCC
ACAAGTGAGGGGTACACAGCATCTCAACCCTTGTAACAGCCTTCTCATGTACAGAGCAACGACCACAGAAGGAA
CCAATTGATCAGATTGAGCAACAATCTCTTTAAATACAGACCAGACTACAGCATCATCATCCCTTCTGCTGCG
TCTCAGCCTCAAGTATTTAGGCTGGGACAAGCAAACCTTTACATAGCAGTGAATCAATGTAAATGCAGCTCCA
TTCCAATCCATGCAAACGGTGTTCAATATGAATGCCCCAGTTCTCTCTGTTAATGAACCAGAACTTTAAACAG
CAAAATCAGTACCAGGCCAGTTATAACCAGAGCTTTTCTAGTCAGCCTCACCAGTAGAACAAACAGAGCTTCAG
CAAGAACAGCTTCAACAGTGTTGGCACTTACCATGGTTCCCCAGACCAGTCCCATCAAGTACTGGTAACCAC
CAGCAGCCTCCTCAGCAGAACACTGGATTTCACGTAGCAATCAGCCCTATTACAATAGTCGTGGTGTGTCTCGT
GGAGGCTCCCGTGGTGCTAGAGGCTTGATGAATGGATACCGGGGCCCTGCCAATGGATTGAGAGGAGATATGAT
GGTTACCGCCCTTCATTCTCTAACACTCCAACAGTGTTTATACAGTCTCAGTTTCAAGTCTCCCGGGATTAC
TCTGGCTATCAACGGGATGGATATCAGCAGAAATTTCAAGCGAGGCTCTGGGCAGAGTGGACCACGGGGAGCCCCA
CGAGGTCGTGGAGGGGCCCCAAGACCAACAGAGGGATGCCGAAATGAACACTCAGCAAGTGAATTAATCTGAT
TCACAGGATTATGTTAATCGCCAAAAACACACTGGCCAGTGATACCATAAATATGTTACCAGAAGAGTTATTATCT
ATTTGTTCTCCCTTTTCAAGAACTTATTGTAAAGGGACTGTTTTTATCCCATAAAGACAGGACTACAATTGTCAG
CTTTCTATTACCTGGATATGGAAGGAACTATTTTTACTCTGCATGTTCTGTCTAAGCGTCATCTTGAGCCTTG
CACATGATACTCAGATTCTCTACCCCTTGCTTAGGAGTAAAACAATATACTTTACAGGGTGATAATAATCTCCATA
GTTATTTGAAGTGGCTTGAAAAAGGCAAGATTGACTTTATGACATTGGATAAAATCTACAAATCAGCCCTCGAG
TTATTCAATGATAACTGACAACTAAATTATTTCCCTAGAAAGGAAGATGAAAGGAGTGGAGTGTGGTTTGGCAG
AACAACTGCATTTTACAGCTTTTCCAGTTAAATTGGAGCACTGAACGTTTCAAGTGCATACCAAATTTATGCATGGG
TCCTAATCACACATATAAGGCTGGCTACCAGCTTTGACACAGCACTGTTTCTGTCGCAACAACTGTGGTTAAA
AACACATGTAAATGCTTTTAAACAGCTGATACTGTATAAGACAAAGCCAAGATGCAAAATTAGGCTTTGATTGG
CACTTTTTGAAAAATATGCAACAAATATGGGATGTAATCCGGATGGCCGCTTCTGTACTTAATGTGAAATATTTA
GATACCTTTTTGAACTTAACAGTTTCTTTGAGACAATGACTTTTGTAGGATTGGTACTATCTATCAATTCCTT
ATGACATGTACATTGCTGTCACTAATCCTTGGAATTTGCTGTATTGTACCTAAATTGGTACAGGTACTGTATGA
AAATCTCTAGTGGATAATCATAACACTCTCGGTACATGTTTTTCTTCAGCTTGAAAGCTTTTTTTTAAAGGA
AAAGATACCAATGCCGTGCTGCTACCACCTTTTCAATTGCTATCTTTTGAAGGCACCAAGTATGTGTTTTAGAT
TGATTTCCCTGTTTTCAGGGAAATCACGGACAGTAGTTTCAAGTTCTGATGGTATAAGCAAACAAATAAACGTTT
ATAAAGTTAAAAA

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FIGURE 2082

MKQILGVIDKKLRNLEKKKGKLDYQERMNKGERLNQDQLDAVSKYQEVTTNNLEFAKELQRSFMALSQDIQKTIK
KTARREQLMREEAEQKRLKTVLELQYVLDKLGDDDEVRTDLKQGLNGVPILSEEELSLLEFYKLVDPERDMSLRL
NEQYEHASIHLDLLEGGKEKPVCGTTYKVLKEIVERVFQSNYFDSTHNGNGLCEEEEAASAPAVEDQVPEAEPE
PAEYTEQSEVESTYVNRQFMAETQFTSGEKEQVDEWTVETVEVVNSLQQQPQAASPSVPEPHSLTPVAQADPL
VRRQRVQDLMAQMGPYNFIQDSMLDFENQTLDPDIVSAQPMNPTQNMMPQLVCPVHSESRLAQPNQVPVQPE
ATQVPLVSSTSEGYTASQPLYQPSHATEQRPQKEPIDQIQATISLNTDQTTASSSLPAASQPQVFQAGTSKPLHS
SGINVNAAPFQSMQTVFNMNAPVPPVNEPETLKQQNQYQASYNQSFSSQPHQVEQTELQQEQLTVVGTYHGSPD
QSHQVTGNHQPPQONTGFPRSNQPYNSRGVSRGGSRGARGLMNGYRGPANGFRGGYDGYRPSFSNTPNSGYTQ
SQFSAPRDYSGYQRDGYQQNFKRSGSGSGPRGAPRGRGGPPRPNRGMPQMNTQQVN

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FIGURE 2083

CAGCGGCGGCCAGGAGGCAGCCGGTGAGCGCCTGCGAGCAGAGTGGCGGGGGCCGCTGACAGGTCCCGCGCAGC
CCAGCCCAGCCCAGCCACGCGGCTCACAGGTGGGGTCCAAGAGCAGTTTGGAGCAACCCGGCGCTACGGAGAGGG
GTGGACGGCTCTGCACGGGCCTCCTGTCTCCCGCTCGGGCAGAGGGACTCGGGGGGACCTCGCTCCTTGGCCGAG
AGAACCTGAACTCGGGCGGAGAGAACCGCGCCAGGCGGGCAAGGGGACCAGAGAAAGCCGGGGCTGGAAGTCACT
GTCGCTCGCCACTGTCTGGAGCGCACGGAGCGCAGAGCCCCGGCAGCCGCGCTGCCCTCCCGGGGACCGAGCCA
GTGATGCAGGATCGCTGAGCGGAGATCCGCGCCGAGAAGTCTCTCGGGGCCGGGGCTGAGACGCACGCCTTCGAC
ACCGCTGCCAAGACCCCGATTCCGGCGACTCTTGGGGGAACCGAGGGGCCAAGGCTGCCCAAGCTCAGGACTT
GGGCGAGTCTAAGACGATGGTTTTCTTAAGCACGGACCCGCGTTCCCTTCCCGCCCCCTCGACTGGAGGCAGGGA
TCCTGCGCGGGGGCCCCGGGATTCCGTTTCCCGCGGAGCCCCGGCCGCTGCCTCCCGGGACAGTTTCGCACGGCC
ACAGGGGCGCACGGCGATGTGGCCTCCGTCCAGCGCGTGGCCCCGGGGGGATGCTCTGGCACCTGTCCGGGT
CCAGGCCTAGCATGGCCGGCGGTTGCCGACGTCCGCTCCGGCTAGGATGGCCCCCTCCGGGCCCCGCCAGTGCC
CTCTCCACCTCGGCCGAGCCGCTGTCCCGCAGCATCTTCCGGAAGTTCTTGCTGATGCTCTGCTCCCTGCTCACG
TCCCTTTACGTCTTCTACTGCCTGGCCGAGCGCTGCCAGACCCTGTCCGGCCCCGTCGTGGGGCTGTCCGGCGGC
GGCGAGGAGGCGGGGGCCCCCTGGTGGCGCGCTCTGGCCGAGGCCCCGAGGAGCTGGCGGTGTGGCCGGCGGC
GCACAGAGAAAGCGCTCCTGCAACTGCCGAGTGGCGGAGGCGCGGCCGCCCGCGCCCCGCGACGACGGCGAG
GAGGCGCCCTGGGAAGAAGAGTCCCCTGGCCTGTTCAGGGGGTCCGGGCGGCTCCGGGGCCGGAAGCACCGTGGCC
GAGGCCCCCGGGGACCTGGCGCTGCTCCTGGACGAAGGCAGCAAGCAGCTGCCGACGGCCATCATCATCGGA
GTGAAGAAGGGCGGCACGCGGGCGCTGCTGGAGTTCTTGCCTGTCACCCCGACGTGCGCGCCGTGGGCGCCGAG
CCCCACTTCTTCGACCGCAGCTACGACAAGGGCCTCGCCTGGTACCGGGACCTGATGCCAGAACCTGGACGGG
CAGATCACCATGGAGAAGACGCCCAGTTACTTCGTACGCGGGAGGCCCCCGCGCGCATCTCGGCCATGTCCAAG
GACACCAAGCTCATCGTGGTGGTGCGGGACCCGGTGACCAGGGCCATCTCGGACTACACGCAGACGCTGTCCAAG
CGGCCCCGACATCCCCACCTTCGAGAGCTTGACGTTCAAAAACAGGACAGCGGGCCTCATCGACACGTCGTGGAGC
GCCATCCAGATCGGCATCTACGCCAAGCACCTGGAGCACTGGCTGCGCCACTTCCCCATCCGCCAGATGCTCTTC
GTGAGCGCGAGCGGCTCATCAGCGACCCGGCCGGGAGCTGGGCCGCGTGCAAGACTTCTGGGCCCTCAAGAGG
ATCATCACGGACAAGCACTTCTACTTCAACAAGACCAAGGGCTTCCCCTGCCTGAAGAAGGCGGAGGGCAGCAGC
CGGCCCCATTGCCTGGGCAAGACCAAGGGCAGGACCCATCCTGAGATCGACCGGAGGTGGTGGCGAGGCTGCGC
GAGTTCTACCGGCCTTTCAACCTCAAGTTCTACCAGATGACCGGGCACGACTTTGGCTGGGATGGATTAACCATAT
AATTTAAAAAGAAAAAAATCAAAATATAATATATTTTTTTACCAATCGGTAGAGAAGAGACAGTTTAATATT
TGTGCTGAAAATATGTTTCAGTATTTTTTTCAATGAATGTTAAGAGATTGTTCTCACTCCCGCCCCATCTTAATG
TATAACCAACACCAAACACGTGGATCAACAGAAAAGGAAAATTTCACTCGTCTAAACACTTTCAATTTTCAGTTT
TTATTTTATGTTCTATATACCCAGTCATAAAGTATAAGCATCAGTTGTCATTAAAAAGTTTTAGAAAAATCTTGAG
GTTAAACATCTCTCTCTTTTTTTTAAATAACAAGGCCCTGATAAAATTGATATCTATCCTTATATTTTTCTCCC
TTTTTCCCGTGCCACTTTTTCTTAAATTATTTCCAGTTAGTATTATCATATGTTTGTACCCGTCACAGTTTTCA
TAGTGCTTTCAAATACACCTTTTTGATCATTAAATAAAAAAATAAATCTTGAAAAAATAAAAAA

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FIGURE 2084

MAPPGPASALSTSAEPLSRSIFRKFLMLCSLLTSLYVFYCLAERCQTLSGPVVGLSGGGEEAGAPGGGVLAGGP
RELAVWPAQAQRKRLQLPQWRRRRPPAPRDDGEEAAWEEESPGLSGGPGGSGAGSTVAEAPPCTLALLLDEGSK
QLPQAIIGVKKGGTRALLEFLRVHPDVRAVGAEPHFFDRSYDKGLAWYRDLMPRTLGDQITMEKTPSYFVTREA
PARISAMSKDTKLIVVVRDPVTRAISDYTQTLSKRPDIPTFESLTFKNRTAGLIDTSWSAIQIGIYAKHLEHWLR
HFPIRQMLFVSGERLISDPAGELGRVQDFLGLKRIITDKHFYFNKTGFPCLKKAEGSSRPHCLGKTKGRTHPEI
DREVVRRLREFYRPFNLKFYQMTGHDFGWDG

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FIGURE 2085

CTAAAGCTGGGTTGGTAGCTCCTACCTACTGTGTGGCAAGAAGGTATGGGTCATGAACAGAACCAAGGAGCTGCG
CTGCTACAGATGTTACCACTTCTGTGGCTGCTACCCCACTCCTGGGCCGTCCCTGAAGCTCCTACTCCAATGTGG
CCAGATGACCTGCAAAACCACACATTCCCTGCACACAGTGTACTGCCAGGATGGGAGTCCCAGTGTGGGACTCTCT
GAGGCCTACGACGAGGACCAGCTTTTCTTCTCGACTTTTCCAGAACACTCGGGTGCCTCGCCTGCCCGAATTT
GCTGACTGGGCTCAGGAACAGGGAGATGCTCCTGCCATTTTATTTGACAAAGAGTTCTGCGAGTGGATGATCCAG
CAAATAGGGCCAAAACCTTGATGGGAAAATCCCGGTGTCCAGAGGGTTTCCTATCGCTGAAGTGTTCACGCTGAAG
CCCCTGGAGTTTGGCAAGCCCAACACTTTGGTCTGTTTTGTCAGTAATCTCTTCCCACCCATGCTGACAGTGAAC
TGGCAGCATCATTCCGTCCCTGTGGAAGGATTGGGCCTACTTTTGTCTCAGCTGTGATGGACTCAGCTTCCAG
GCCTTTTCTTACTTAACTTCACACCAGAACCTTCTGACATTTTCTCCTGCATTGTGACTCACGAAATTGACCGC
TACACAGCAATTGCCTATTGGGTACCCCGGAACGCACTGCCCTCAGATCTGCTGGAGAATGTGCTGTGTGGCGTG
GCCTTTGGCCTGGGTGTGCTGGGCATCATCGTGGGCATTGTTCTCATCATCTACTTCCGGAAGCCTTGCTCAGGT
GACTGATTCTTCCAGACCAGAGTTTGATGCCAGCAGCTTCGGCCATCCAACAGAGGATGCTCAGATTCTCACA
TCCTGCCCAGGATCTCCTCTTAGGGTAGAAGAAGTCTCTGGGACATCCCTGGGGTGTGTGTGTAGATTCCCACC
TGGGGACTCTGCTGTCCCTGGGCTTGATCCAGGGATCCAGAGTGGCCTGCCTATCACAACCACATCCCTTCC
CCCCACAAGGCAATAAATCTCATTCTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2086

MGHEQNQGAALLQMLPLLWLLPHSWAVPEAPTPMWPDDLQNHTFLHTVYCQDGSPSVGLSEAYDEDQLFFDFDSQ
NTRVPRLPEFADWAQEQGDAPAILFDKEFCEWMIQQIGPKLDGKIPVSRGFP IAEVFTLKPLEFGKPNTLVCFVS
NLFPMLTVNWQHHSVPVEGFGPTFVSAVDGLSFQAFSYLNFTPEPSDIFSCIVTHEIDRYTAIAYWVPRNALPS
DLLENVLCGVAFGLGVLGIIVGIVLIIYFRKPCSGD

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FIGURE 2087

TTGGGAGGAGCAGTCTCTCCGCTCGTCTCCCGGAGCTTTCTCCATTGTCTCTGCCTTTACAACAGAGGGAGACGA
TGGACTGAGCTGATCCGCACCATGGAGTCTCGGGTCTTACTGAGAACATTCTGTTTGATCTTCGGTCTCGGAGCA
GTTTGGGGGGCTTGGTGTGGACCCTTCCCTACAGATTGACGTCTTAACAGAGTTAGAATTGGGGAGTCCACGACC
GGAGTGCCTCAGGTCCCGGGGCTGCATAATGGGACGAAAGCCTTTCTCTTTCAAGATACTCCCAAGCATAAAA
GCATCCACTGCTACAGCTGAACAGTTTTTTTTCAGAAGCTGAGAAATAAACATGAATTTACTATTTTGGTGACCCTA
AAACAGACCCACTTTAAATTCAGGAGTTATTCTCTCAATTCACCACTTGGATCACAGGTACCTGGAACTGGAAAGT
AGTGCCCATCGGAATGAAGTCAGACTGCATTACCGCTCAGGCACTCACCGCCCTCACACAGAAGTGTTTCTTTAC
ATTTTGGCTGATGACAAGTGGCACAAGCTCTCCTTAGCCATCAGTGCTTCCCATTTGATTTTACACATTGACTGC
AATAAAATTTATGAAAGGGTAGTAGAAAAGCCCTCCACAGACTTGCTCTAGGCACAACATTTTGGCTAGGACAG
AGAAAATATGCGCATGGATATTTTAAAGGTATAATGCAAGATGTCCAATTACTTGTCTATGCCCCAGGGATTTATT
GCTCAGTGCCAGATCTTAATCGCACCTGTCCAATTGCAATGACTTCCATGGACTTGTGCAGAAAATCATGGAG
CTACAGGATATTTTAGCCAAAACATCAGCCAAAGCTGTCTCGAGCTGAACAGCGAATGAATAGATTGGATCAGTGC
TATTGTGAAAGGACTTGACCATGAAGGGAACCACTACCGAGAATTTGAGTCTGGATAGACGGCTGTAAGAAC
TGCACATGCCTGAATGGAACCATCCAGTGTGAAACTCTAATCTGCCCAAATCCTGACTGCCCACTTAAGTGGCT
CTTGCTATGTGGATGGCAAATGCTGTAAGGAATGCAAATCGATATGCCAATTTCAAGGACGAACCTACTTTGAA
GGAGAAAGAAATACAGTCTATTCTCTTCTGGAGTATGTGTTCTCTATGAGTGAAGGACCAGACCATGAACTT
GTTGAGAGTTTCAAGGCTGTCCAGCTTTGGATTGTCCAGAGTCTCATCAGATAACCTTGTCTCACAGCTGTTGCAA
GTTTGTAAAGGTTATGACTTTTGTCTGAAAGGCATAACTGCATGGAGAATTCCATCTGCAGAAATCTGAATGAC
AGGGCTGTTTGTAGCTGTGAGATGGTTTTAGGGCTCTTCGAGAGGATAATGCCTACTGTGAAGACATCGATGAG
TGTGCTGAAGGGCGCCATTACTGTCTGTAATAACAATGTGTGTAACACCCCGGGTCTTTTATGTGCATCTGC
AAAAGTGGATACATCAGAATTGATGATTATTCATGTACAGAACATGATGAGTGTATCACAATCAGCACAACCTGT
GATGAAAATGCTTTATGCTTCAACACTGTTGGAGGACACAACCTGTGTTTGCAAGCCGGGCTATACAGGGAATGGA
ACGACATGCAAAGCATTTTGCAAAGATGGCTGTAGGAATGGAGGAGCCTGTATTGCCGCTAATGTGTGTGCCTGC
CCACAAGGCTTCACTGGACCCAGCTGTGAAACGGACATTGATGAATGCTCTGATGGTTTTGTTCAATGTGACAGT
CGTGCTAATTGCATTAACCTGCCTGGATGGTACCCTGTGAGTGCAGAGATGGCTACCATGACAATGGGATGTTT
TCACCAAGTGGAGAATCGTGTGAAGATATTGATGAGTGTGGGACCGGGAGGCACAGCTGTGCCAATGATACCAT
TGCTTCAATTTGGATGGCGGATATGATTGTGATGTCTCATGGAAGAATTGCACAGGGGACTGCATCCATGAT
GGAAAAGTTAAGCACAATGGTCAGATTGGGTGTGGAAAATGACAGGTGCTCTGTGTGCTCATGTGAGAATGGA
TTCGTTATGTGTGACGGATGGTCTGTGACTGTGAGAATCCACAGTTGATCTTTTTTGTGCTGCCCTGAATGTGAC
CCAAGGCTTAGTAGTCAGTGCCCTCCATCAAAATGGGGAAACTTTGTATAACAGTGGTGACACCTGGGTCCAGAAT
TGTCAACAGTGCCGCTGCTTGCAAGGGGAAGTTGATTGTTGGCCCTGCCTTGCCAGATGTGGAGTGTGAATTC
AGCATTCTCCAGAGAATGAGTGTGCCCCGCTGTGTACAGACCCCTTGCCAGGCTGACACCATCCGCAATGAC
ATCACAAGACTTGCCCTGGACGAAATGAATGTGGTTCGCTTACCAGGCTCCTCTTGATCAAACATGGCACTGAG
TGTAATCTCTGCCAGTGCAAGAATGGCCACATCTGTGCTCAGTGGATCCACAGTGCCTTCAGGAACCTGGAAGT
TAACTGTCTCATGGGAGATTTCTGTAAAAGAATGTCTTTTCAATTAAGACCAAAAAGAAGTTAAACTTAAAT
TGGGTGATTTGTGGGCAGCTAAATGCAGCTTTGTTAATAGCTGAGTGAACCTTTCAATTATGAAATTTGTGGAGCT
TGACAAAATCAGAAAAGGAAAATTACTGGGGCAAAATTAGACCTCAAGTCTGCCTCTACTGTGTCTCACATCACC
ATGTAGAAGAATGGCGGTACAGTATATACCGTGACATCCTGAACCTGGATAGAAAGCCTGAGCCCATTGGATCT
GTGAAAGCCTTAGCTTCACTGGTGCAGAAAATTTCTCTAGATCAGAATCTTCAGAATCAGTTAGGTTCTCA
CTGCAAGAAATAAAATGTCAGGCAGTGAATGAATTATTTTTCAGAAAGTAAAGCAAGAAAGCTATAACATGTTAT
GTACAGTACACTCTGAAAAGAAATCTGAAACAAGTTATTGTAATGATAAAAATAATGCACAGGCATGGTTACTTA
ATATTTTCTAACAGGAAAAGTCATCCCTATTTCTTGTGTTTTACTGCACCTTAATATTATTGGTTGAATTTGTCA
GTATAAGCTCGTTCTGTGCAAAATTAATAAATATTCTCTTACCTT

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FIGURE 2088

MESRVLLRTFCLIFGLGAVWGLGVDPSSLQIDVLTELELGESTTGVRQVPGLHNGTKAFLFQDTPRSIKASTATAE
QFFQKLRNKHEFTILVTLKQTHLNSGVILSIHHLDHRYLELESSGHRNEVRLHYRSGSHRPHTIEVFPYILADDKW
HKLSLAISASHLILHIDCNKIYERVVEKPSTDLPGLTTFWLGQRNNAHGYFKGIMQDVQLLVMPQGGFIAQCPDLN
RTCPTCNDHFGLVQKIMELQDILAKTSAKLSRAEQRMNRLDQCYCERTCTMKGTTYREFESWIDGCKNCTCLNGT
IQCETLICPNPDCPLKSALAYVDGKCCKECKSICQFQGRTYFEGERNITVYSSSGVCVLYECKDQTMKLVESGCP
ALDCPESHQITLSHSCCKVCKGYDFCSEHNCMENSICRNLNDRAVCSCRDGFRALREDNAYCEDIDECAEGRHY
CRENTMCVNTPGSFMCICKTGYIRIDDYSCTEHDECITNQHNCDENALCFNTVGGHNCVCKPGYTGNNGTTCKAFC
KDGCRRNGGACIAANVCACPQFTGPGSCETDIDECSDFVQCDSTRANCINLPGWYHCECRDGYHDNGMFSPSGES
EDIDECGTGRHSCANDTICFNLDGGYDCRCPHGKNCTGDCIHDGKVKHNGQIWLNDRCVCSQNGFVMCRRM
VDCENPTVDLFCCPECDPRLSSQCLHQNGETLYNSGDTWVQNCQQCRCLQGEVDCWPLPCPDVECEFSILPENE
CCPRCVTDPCQADTIRNDITKTCLDEMNVVRFTGSSWIKHGTECTLQCKNGHICCSVDPQCLQEL

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FIGURE 2089

GTAGTGGTGCCGACTTCCTGTTGTTTGGAGCCGGGTTGGGGGTGTGCGATTGTGTGGGACGGTCTGGGGCAGCCC
AGCAGCGGCTGACCCTCTGCCTGCGGGGAAGGGAGTCGCCAGGCGGCCGTCAATGCGGTGTCTGGAGAGCCAGCTC
AAGAAAATGGTGTCCAAGTACAAATACAGAGACCTAACTGTACGTGAAACTGTCAATGTTATTACTCTATACAAA
GATCTCAAACCTGTTTTGGATTCAATGTTTTTAACGATGGCAGTTCAGGGAACCTAATGAACCTCACTGGAACA
ATCCCTGTGCCTTATAGAGGTAATACATACAATATTCCAATATGCCTATGGCTACTGGACACATACCCATATAAT
CCCCCTATCTGTTTTGTTAAGCCTACTAGTTCAATGACTATTAAACAGGAAAGCATGTTGATGCAAATGGGAAG
ATATATCTTCCTTATCTACATGAATGGAAACACCCACAGTCAGACTTGTGGGGCTTATTCAGGTCATGATTGTG
GTATTTGGAGATGAACCTCCAGTCTTCTCTCGTCTATTTTCGGCATCCTATCCGCCATACCAGGCAACGGGGCCA
CCAAATACTTCCTACATGCCAGGCATGCCAGGTGGAATCTCTCCATACCCATCCGGATACCCTCCCAATCCCAGT
GGTTACCCAGGCTGTCTTACCCACCTGGTGGTCCATATCTGCCACAACAAGTTCTCAGTACCCTTCTCAGCCT
CCTGTGACCCTGTTGGTCCCAGTAGGGATGGCACAATCAGCGAGGACACCATCCGAGCCTCTCTCATCTCTGCG
GTCAGTGACAACTGAGATGGCGGATGAAGGAGGAAATGGATCGTGCCAGGCAGAGCTCAATGCCTTGAACGA
ACAGAAGAAGACCTGAAAAAGGGTCACCAGAACTGGAAGAGATGGTTACCCGTTTAGATCAAGAAGTAGCCGAG
GTTGATAAAAACATAGAATTTTTGAAAAAGAAGGATGAAGAACTCAGTTCTGCTCTGAAAAAATGGAATCAG
TCTGAAAAACATGATATCGATGAAGTTATCATTCCCACAGCTCCCTTATACAAACAGATCCTGAATCTGTATGCA
GAAGAAAACGCTATTGAAGACACTATCTTTTACTTGGGAGAAGCCTTGAGAAGGGGCGTGATAGACCTGGATGTC
TTCTGAAGCATGTACGTCTTCTGTCCCGTAAACAGTTCCAGCTGAGGGCACTAATGCAAAAAGCAAGAAAGACT
GCCGGTCTCAGTGACCTCTACTGACTTCTCTGATACCAGCTGGAGGTTGAGCTCTTCTTAAAGTATTCTTCTCTT
CCTTTTATCAGTAGGTGCCAGAATAAGTTATTGCAGTTTATCATTCAAGTGATAAATATTTGAATCAATAATA
TATTTTCTGTTTTCTTTTGGTAAAGACTGGCTTTTATTAATGCACCTTCTATCCTCTGTAACTTTTTGTGCTGA
ATGTTGGGACTGCTAAATAAAATTTGTTGCATAAAAAAAAAAAAAAAAAA

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FIGURE 2090

MAVSESQLKKMVSKEYKYRDLTVRETVNVITLYKDLKPVLD SYVFNDGSSRELMNLTGTIPVPYRGNTYNIPICLW
LLDTYPYNPPICFVKPTSSMTIKTGKHVDANGKIYLPYLHEWKHPQSDLLGLIQVMIVVFGDEPPVFSRPISASY
PPYQATGPPNTSYMPGMPGGISPYPSGYPPNPSGYPGCPYPPGGPYPATSSQYPSQPPVTTVGPSRDGTISED
IRASLISAVSDKLRWRMKEEMDRAQAELNALKRTEEDLKKGHQKLEEMVTRLDQEVAEVDKNIELLKKKDEELSS
ALEKMENQSENNDIDEVIIPTAPLYKQILNLYAEENAIEDTIFYLGEALRRGVIDLDVFLKHVRLLSRKQFQLRA
LMQKARKTAGLSDL

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FIGURE 2091

GGCCCCCTTGCTCGCAGAGATGGCTCCCAATGCTTCCTGCCTCTGTGTGCATGTCCGTTCCGAGGAATGGGATTTA
ATGACCTTTGATGCCAACCCATATGACAGCGTGAAAAAATCAAAGAACATGTCCGGTCTAAGACCAAGGTTTCCT
GTGCAGGACCAGGTTCTTTTGCTGGGCTCCAAGATCTTAAAGCCACGGAGAAGCCTCTCATCTTATGGCATTGAC
AAAGAGAAGACCATCCACCTTACCCTGAAAGTGGTGAAGCCCAGTGATGAGGAGCTGCCCTTGTTTCTTGTGGAG
TCAGGTGATGAGGCAAAGAGGCACCTCCTCCAGGTGCGAAGGTCCAGCTCAGTGGCACAAGTGAAAGCAATGATC
GAGACTAAGAÇGGGTATAATCCCTGAGACCCAGATTGTGACTTGCAATGGAAAGAGACTGGAAGATGGGAAGATG
ATGGCAGATTACGGCATCAGAAAGGGCAACTTACTCTTCCTGGCATCTTATTGTATTGGAGGGTTGACCACCCTGG
GGATGGGGTGTTGGCAGGGGTCAAAAAGCTTATTTCTTTTAATCTCTTACTCAACGAACACATCTTCTGATGATT
TCCCAAAATTAATGAGAATGAGATGAGTAGAGTAAGATTTGGGTGGGATGGGTAGGATGAAGTATATTGCCCAAC
TCTATGTTTCTTTGATTCTAACACAATTAATTAAGTGACATGATTTTTACTAATGTATTACTGAGACTAGTAAAT
AAATTTTAAAGGCAAAATAGAGCATT

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FIGURE 2092

MAPNASCLCVHVRSEEWDLMTFDANPYDSVKKIKEHVRSKTKVPVQDQVLLLGSKILKPRRSLSSYGIDKEKTIH
LTLKVVKPSDEELPLFLVESGDEAKRHLLQVRRSSVAQVKAMIEKTKGIIPETQIVTCNGKRLEDGKMMADYGI
RKGNLLFLASYCIGG

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FIGURE 2093

GCAGACCTTGCTTCATGAGCAAGCTCATCTCTGGAACAACTGGCAAAGCATCTCTGCTGGTGTTTCATCAGAACA
GACACCAATGGCAGAGCATGATTACCATGAAGACTATGGGTTTCAGCAGTTTCAATGACAGCAGCCAGGAGGAGCAT
CAAGACTTCCTGCAGTTCAGCAAGGTCTTTCTGCCCTGCATGTACCTGGTGGTGTGTTGCTGTGGTCTGGTGGGG
AACTCTCTGGTGCTGGTTCATATCCATCTTCTACCATAAGTTGCAGAGCCTGACGGATGTGTTCTGGTGAACCTA
CCCCTGGCTGACCTGGTGTGTTGCTGCACCTCTGCCCTTCTGGGCCATGCAGGCATCCATGAATGGGTGTTTGGC
CAGGTTCATGTGCAAGAGCCTACTGGGCATCTACACTATTAACCTTCTACACGTCCATGCTCATCCTCACCTGCATC
ACTGTGGATCGTTTCATTGTAGTGGTTAAGGCCACCAAGGCCTACAACCAGCAAGCCAAGAGGATGACCTGGGGC
AAGGTACCAGCTTGCTCATCTGGGTGATATCCCTGCTGGTTCCTTGCCCCAAATTATCTATGGCAATGTCCTT
AATCTCGACAAGCTCATATGTGGTTACCATGACGAGGCAATTTCCACTGTGGTTCCTGCCACCCAGATGACACTG
GGGTTCTTCTTGGCACTGCTCACCATGATTGTCTGCTATTTCAGTCATAATCAAAACACTGCTTCATGCTGGAGGC
TTCCAGAAGCACAGATCTCTAAAGATCATCTTCCCTGGTGATGGCTGTGTTCTGCTGACCCAGATGCCCTTCAAC
CTCATGAAGTTTCATCCGCAGCACACACTGGGAATACTATGCCATGACCAGCTTTCACTACACCATCATGGTGACA
GAGGCCATCGCATACCTGAGGGCCTGCCTTAACCCCTGTGCTCTATGCCCTTGTGAGCCTGAAGTTTCGAAAGAAC
TTCTGGAAACTTTGTAAGGACATTGGTTGCCTCCCTTACCTTGGGGTCTCACATCAATGGAAATCTTCTGAGGAC
AATTCCAAGACTTTTTCTGCCTCCCAATGTGGAGGCCACCAGCATGTTCCAGTTATAGGCCTTGCCAGGGTTT
CGAGAAGCTGCTCTGGAATTTGCAAGTCATGGCTGTGCCCTCTTGATGTGGTGAGGCAGGCTTTGTTTATAGCTT
GCCGATTCTCATGGAGAAGTTATCAGACACTCTGGCTGGTGTGGAATGCTTCTTCTCAGGCATGAACATGTACTG
TTCTCTTCTTGAACACTCATGCTGAAAGCCCAAGTAGGGGGTCTAAAATTTTAAAGGACTTTCCTTCTCCATCT
CCAAGAATGCTGAAACCAAGGGGGATGACATGTGACTCCTATGATCTCAGGTTCTCCTTGATTGGGACTGGGGCT
GAAGGTGAAGAGGTGAGCACGGCCACAAAGCTGTTGATGGTAGGTGGCACACTGGGTGCCCAAGCTCAGAAGG
CTCTTCTGACTACTGGGCAAAGAGTGTAGATCAGAGCAGCAGTGAACAAGTGCTGGCACCACCAGGCACCTCA
CAGAAATGAGATCAGGCTCTGCCTCACCTTGGGGCTTGACTTTTGTATAGGTAGATGTTTCAGATTGCTTTGATTA
ATCCAGAATAACTAGCACCAGGGACTATGAATGGGCAAACTGAATTATAAGAGGCTGATAATCCAGTGGTCCA
TGGAATGCTTGAAAAATGTGAAAACAGCGTTTAAGACTGAATGAATCTAAGCAGCATTTCTGAAGTGGACTCT
TTGGTGGCTTTGCATTTAAAAATGAAATTTTCCAATGTCTGCCACACAAACGTATGTAAATGTATATACCCACA
CACATACACATATGTCATATATTACTAGCATATGAGTTTCATAGCTAAGAAATAAACTGTTAAAGTCTCCAA
ACT

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FIGURE 2094

MAEHDYHEDYGFSSFNDSQEEHQDFLQFSKVFLPCMYLVVFVCGLVGNSLVLVISIFYHKLQSLTDVFLVNLPL
ADLVFVCTLPFWAYAGIHEWVFGQVMCKSLGIIYTNFYTSMLILTCITVDRFIVVVKATKAYNQAKRMTWGKV
TSLLIWVISLLVSLPQIIYGNVFNLDKLCGYHDEAISTVVLATQMTLGFFLPLLTMIVCYSVIIKTLLHAGGFQ
KHRSLKIIFLVMAVFLLTQMPFNLMKFIRSTHWEYYAMTSFHYTIMVTEAIAYLRACLNPNVLYAFVSLKFRKNFW
KLVKDIGCLPYLGVSHQWKSSDNSTFSASHNVEATSMFQL

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FIGURE 2095

CGGAGCGCGAGCAGAGCGAGACCCCCAGGTCCTGCGGGCGCGGAATATCCTGGAACCTTCTTTTGTGTTGTCAGCA
GCCAAGGTGTTTCCAGGAAGTTCAGAGAGAACAGAATTTAAGAAGTGCAACATGCCAGGGGCTGCCTCTGCTGC
TTGAAGTACATGATGTTCTCTTCAATTTGATATTCTGGCTCTGTGGCTGTGGGCTGCTGGGAGTGGGCATCTGG
CTCTCCGTGTCCCAAGGCAACTTTGCCACCTTCTCCCCAGCTTCCCTTCGTTGTCTGCAGCCAACCTGGTCATT
GCCATAGGCACCATTGTTCATGGTGACGGGCTTCTCGGCTGCCTGGGGGCCATCAAGGAAAAACAAGTGCCTCCTC
CTCAGCTTTTTTCATCGTCTCTGTTGGTCATCCTCCTAGCAGAGCTGATCTTACTCATCCTCTTCTTTGTCTACATG
GACAAGGTGAACGAGAACGCCAAGAAGGACCTGAAGGAAGGCCTGCTGCTGTACCACACCGAGAACAACGTGGGG
CTGAAGAACGCCTGGAACATCATCCAGGCTGAGATGCGATGCTGTGGTGTCACTGACTACACAGACTGGTACCCA
GTGCTGGGGGAGAACACGGTTCCCGACCGCTGCTGCATGGAGAACTCCCAGGGCTGCGGGCGCAACGCCACCACG
CCTTTGTGGAGAACGGGCTGCTATGAAAAGGTGAAGATGTGGTTTCGATGACAATAAGCACGTGCTGGGCACGGTG
GGGATGTGCATCCTCATCATGCAGATCCTGGGCATGGCCTTCTCCATGACCCCTCTTCCAGCACATCCACCGGACT
GGTAAGAAGTACGACGCA~~TG~~AGCGGGCTGGCCGGGAGTGCCACCCCGCCCTGCTGCCCTGTGGAGGGAAGAGGA
TTGAGCTTTGTGTACCTGCCTGCGCTCTCCAGATATGACCCCTGCACCCACCCCCACAGCCTGCCCTACCCCA
CCTACCCTGCCTCAGCCTCGGACTTCTCAGTGGGTGGAGTGCCAGGGAGGAGGAGGCACACGGAGACCTGGGGCT
CGGGGCCCCCTGGATTCTGCACTGCATATGCGTATTTGCCAAAGACGACAGGGTGGGCTGGGGTGGCTCCGGA
GGAACCCCCGGCACTGATGGGCTTCTGCCCCTGCCCTTCTCACACTGACACTTTGTCCCCACATGGGGTGGGGA
GCAGAGTGCCCGCCCCGTGGAGATACCGCCCCAGCGGGGCTGCGACATCCATGGCCACCATGGGGCACCTGGCG
GGGCGGGGGTCTGCCGGCCTCTGGGCAAGGCCCCCTGGAGCATCTCGCCAGGCTTTTATACCTTACAATGTAAC
TTTTTTATTTTATTTTACTCTATGATTATTCAGGAATATTATCTCTCAGATAAGTTTAGGGTTAAAAAAAAAAAA
AAAAAA

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FIGURE 2096

MARGCLCCLKYMMFLFNLI FWLCGCGLLGVGIWLSVSQGNFATFSPSFPSLSAANLVIAIGTIVMVTGFLGCLGA
IKENKCILLSFFIVLLVILLAELILLILFFVYMDKVNENAKKDLKEGLLLYHTENNVLKNAWNIIQAEMRCCGV
TDYTDWYPVLGENTVPDRCCMENSQGCGRNATTPLWRTGCEYKVKMWFDNKHVLGTVGMCILIMQILGMAFSMT
LFQHIHRTGKKYDA

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FIGURE 2097

TTGGAACACCTGGCGAGTCCTCGGTGTCGGTGGCCGGCAGTCATCTCGCGGCCGTTTCAGAATTATAAGGCTGTCT
GCAGAGATTTGAAAAATGGCAACAAATGAAAGTGTGAGCATCTTTAGTTTCAGCATCCTTGGCTGTGGAATATGTA
GATTCACTTTTACCTGAGAATCCTCTGCAAGAACCATTAAAAATGCTTGAACTATATGTTGAATAATTATACA
AAGTTCAGATTGCAACATGGGGATCCCTTATAGTTCATGAAGCCCTTTATTTCTTATTCTGTTTACCTGGATT
TTATTTCAATTTATACCTTATATGAAAAATACAAAATTCAAAGGATAAGCCAGAGACATGGGAAAACCAATGG
AAGTGTTCAAAGTTCTTCTCTTAATCACTTCTGTATCCAGCTGCCTTTGATTTGTGGAACTATTATTTTACA
GAGTATTTCAATATTCTTATGATTGGGAAAGAATGCCAAGATGGTATTTCTTTTGGCAAGATGCTTTGGTTGT
GCAGTCATTGAAGATACTTGGCACTATTTTCTGCATAGACTCTTACACCACAAAAGAATATACAAGTATATTAT
AAAGTTCATCATGAGTTTCAGGCTCCATTGGAATGGAAGCTGAATATGCACATCCTTTGGAGACTCTAATTCTT
GGAACTGGATTTTTCATTGGAATCGTGCTTTTGTGTGATCATGTAATCTTCTTTGGGCATGGGTGACCATTCTG
TTATTAGAACTATTGATGTCCATAGTGGTTATGATATTCTCTCAACCTTTAAATCTGATCCCTTTCTATGCT
GGTCTCGGCATCATGATTTCCACCACATGAACCTTATTGGAACTATGCTTCAACATTTACATGGTGGGATCGA
ATTTTGGAACAGACTCTCAGTATAATGCCTATAATGAAAAGAGGAAGAAGTTTGAGAAAAAGACTGAATAAATA
TCTCACGTAAACCTTCTGAAAGATAAACGTTTTCTGAATTCAGAACTAGTAGCTAACATTGCTTCTGGAGAG
CAGAAATAAGCATGTCTTCTGGCTACTAAGTGATAAAAAGAACATTAAACAACCTTTAATTACCTTCTAGTGGGA
ACTTTTTCTACTTTACCTACAAGTTCTATATATGTAGAAATGAATAAATATATATTTAAGTACAGTTTTCATGAG
GAAGTTTTAAAGACCATGTTCTTAAGCTTCCAAGAAGTTTTGGATACTAGAAGTATTAATCTATGGCTTTTTCT
CCCAGTAAACCATAGGCCTGAAGTTCACATTGGGTCTTTAAATCTTTTAGATATATACTGGTCATTTTCAGAAAA
TTCTTCATAGTGGTATTGGCCTTATATTTAACTTTTTTTTTTATTTTTTTTTTGAGACAAAGCCACACTCTGTCTC
CTTGTCTGGAGTGTGGTGGCACAGTCTCAGCTCACTGCAACCTCTGCCTCCCAGTTCAAGCAATTCTTCTGCCTC
AGCCTCCCAAGTAGCTGGGATTACAGGCACCCGCCACCACGCCAGCTAATTTTGTATTTTGTAGAGATGGGG
TTTCTCGATGTTGGCCAGGCTGGTCTCAAACCTCTGACCTCAAGTGATCTGCCACCTTGGCCTCCCAAAGTGCT
GGGATTACAGGTGTAAGCCACTGCGCCCGGCTTTTTAACTTTAAACATGTTTGTAGAAATTCACCTAAAGATCAAA
ATATCATGGATTGAAC

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FIGURE 2098

MATNESVSIFSSASLAVEYVDSLLPENPLQEPFKNWNYMLNNTKFQIATWGS LIVHEALYFLFCLPGFLFQFI
PVMKKYKIQKDKPETWENQWKCFKVLLFNHFCIQLEPLICGTYYFTEYFNIPYDWERMPRWYFLLARCFGC AVIED
TWHYFLHRL LHHKRIYKYIHKVHHEFQAPFGMEAEYAHPLETLILGTGFFIGIVLLCDHVILLWAWVTIRLLETI
DVHSGYDIPLNPLNLIPFYAGSRHHDFFHMFIGNYASTFTWWDRIFGTDSQYNAYNEKRKKFEKKTE

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FIGURE 2099

GCCGCCGCCGCC**ATGA**ACATTTTCCGGCTGACTGGGGACCTGTCCCACCTGGCGGCCATCGTCATCCTGCTGCTG
AAGATCTGGAAGACGCGCTCCTGCGCCGGTATTTCTGGGAAAAGCCAGCTTCTGTTTGCACTGGTCTTCACAAC
CGTTACCTGGATCTTTTTACTTCATTTATTTCAATTGTATAACACATCTATGAAGGTTATCTACCTTGCTGCTCC
TATGCCACAGTGATCTACCTGAAATTTAAGGCAACCTACGATGGAAATCATGATACCTTCCGAGTGGAG
TTTCTGGTGGTCCCTGTGGGAGGCCCTCTCATTTTTAGTTAATCACGATTTCTCTCTCTTGAGATCCTCTGGACC
TTCTCCATCTACCTGGAGTCCGTGGCTATCCTTCCGCAGCTGTTTATGATCAGCAAGACTGGGGAGGCCGAGACC
ATCACCACCCACTACCTGTTCTTCCCTGGGCCTCTATCGTGCTTTGTATCTTGTCAACTGGATCTGGCGCTTCTAC
TTTGAGGGCTTCTTTGACCTCATTGCTGTGGTGGCCGGCGTAGTCCAGACCATCCTATACTGTGACTTCTTCTAC
TTGTACATTACAAAAGTACTCAAGGGAAAGAAGCTCAGTTTGCCAGCA**TAAG**TGCCAAAGACCATCACCAGCATC
TGTCCTTCAGGGTGCTCGGACAGAATTCCTACCACAGCAAAGGCATAAGATGCTTGATACGGAAAATCAGAACT
TAACTCTTTTGTGAGATAGTCATCAGTGGCTCTGTAAAAACGCAGAGGAAAAGAGCCAGAAGGTTTCTGTTTA
ATGCATCTTGCCTTATCTTTTTTTTATTACTGTGTACAAAGATTTTTTTACACAAAGAACTTAATGCTGTATTAA
TAAATTCAGTGTGTAGCTTCAATTGGGATAGTTCCAAAAGTGAAGATTTTGTGAGGAATAAGTGCAAATTTTTTT
TTTATTTTAAAAAATTCTTTGAACTCTTAAGTCTTTGTGTCTGCAATGAAATTGTACTCCTTGACAGTTGATAG
ATTATGTATTCTTCCATCCCTCAAACCTGCATTCCACTATATTTATTTTTTGGCAAAGATGAGCTGTATTGTT
TGAAATCTGAGACACTATGTTCAATTGG

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FIGURE 2100

MNIFRLTGDLSHLAAIVILLLLKIWKTRSCAGISGKSQLLFALVFTTRYLDLFTSFISLYNTSMKVIYLACSYATV
YLIYLFKATYDGNHDTFRVEFLVVPVGGLSFLVNHDFSPLLEILWTFISIYLESVAILPQLFMISKGTGEATITTH
YLFFLGLYRALYLVNWIWRFYFEGFFDLIAVVAGVVQTILYCDFFYLYITKVLKGKKLSLPA

GAGGAGTGGATTACATATTCTTCCAACAGTTGTTATTACATTGGTAAGGAAAGAAAGAACTTGGGAAGAAAGAGTTTGC
TGGCCTGTGCTTCGAAGAAGCTCTGATCTGCTTTCTATAGATAATGAGGAAGAAATGGTATGTGTGGGGACTTCCC
AGTTGGCTGTAAAGTTGCCATTTGAACTAAACGAAATAGATCAGGAAGCTGAGGACATATCTAAATTTTCTAGTTTT
ATAGAAGGCTTTTATCCACAAGAATCAAGATCTTCCCTCTCTGAGCAGGAATCCTTTGTGCATTGAAGACTTTAG
ATTCTCTCTGCGGTAGACGTGCATTATAAGTATTTGATGGGGTGGATTCTGTGGTGGGAGGTCTCGACACAGCT
GGGAGATGAGTGAATTTTCATAATTATAAAGTGGATCTGAAGAAGAGTGATTTTTCAACACGATGGCAAAGC
GATGTCCAGTAGTCAAAAGCAAATGTAGAGAAAATGCATCTCCATTTTTTTTCTGCTGCTTCATCGCTGTAGCCA
TGGGAATCCGTTTCATTATTATGGTAGCAATATGGAGTGCTGTATTCTTAACTCATTATTCAACCAAGAAGTTC
AAATTCCTTGACCGAAAAGTTACTGTGGCCCATGTCTAAAAACTGGATATGTTACAAAAATAACTGCTACCAAT
TTTTTGATGAGAGTAAAAACTGGTATGAGAGCCAGGCTTCTTGTATGTCTCAAAATGCCAGCCTTCTGAAAGTAT
ACAGCAAAGAGGACCAGGATTTACTTAACTGGTGAAGTCATATCATTGGATGGGACTAGTACACATTCCAACAA
ATGGATCTTGGCAGTGGAAGATGGCTCCATTCTCTACCCCAACCTACTAACAATAATTGAAATGCAGAAGGGAG
ACTGTGCACTCTATGCCTCGAGCTTTAAAGGCTATATAGAAAAGTGTCACTCCAAATACATACATCTGCATGC
AAAGGACTGTGTAAAGATGATCAACCATCTCAATAAAAGCCAGGAACAGAGAAGAGATTACACCAGCGGTAACAC
TGCCAACCGAGACTAAAGGAAACAAACAAAAACAGGACAAAATGACCAAAGACTGTGAGATTTCTTAGACTCCAC
AGGACCAAACCATAGAACAATTTCACTGCAAAACATGCATGATTCTCCAAGACAAAAGAAGAGAGATCCTAAAGGC
AATTCAGATATCCCCAAGGCTGCCTCTCCACCACAAGCCCAGAGTGATGGGCTGGGGGAGGGGTGCTGTTTTA
ATTTCTAAAGGTAGGACCAACACCCAGGGGATCAGTGAAGGAAGAGAAGGCCAGCAGATCAGTGAGAGTGCAACC
CCACCTCCACAGGAAATTGCCTCATGGGCAGGGCCACAGCAGAGAGACACAGCATGGGCAGTGCCTTCCCTGCC
TGTGGGGGTGCTGCTGCCACTTTTAAATGGGTCTCCACCAACGGGGTCAGGGAGGTGGTGTGCTGCCCCAGTGGGC
CATGATTATCTTAAAGGCATTATTCTCCAGCCTTAAGATCTTAGGACGTTTCTTTGTCTATGATTGTACTTGCT
TGAGTCCCATGACTGTTTCTTCTCTCTTTCTTCTTTTGGAAATAGTAATATCCATCCTATGTTTGTCCCACT
ATTGTATTTTGGAAAGCACATAACTTGTTTGGTTTTCACAGGTTACAGTTAAGAAGGAATTTTGCCTCTGAATAAA
TAGAATCTTGAGTCTCATGCAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2102

MGWIRGRRSRHSWEMSEFHNYNLDLKKSDFSTRWQKQRCPVVKSCKRENASPPFFCCFIAVAMGIRFIIMVAIWS
AVFLNSLFNQEVQIPLTESYCGPCPKNWICYKNNCYQFFDESKNWYESQASCMSQNASLLKVYSKEDQDLLKLVK
SYHWMGLVHIPTNGSWQWEDGSILSPNLLTIEMQKGDALYASSFKGYIENCSTPNTYICMORTV

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FIGURE 2103

CTCGTGCCGAATTCGGCAGGACCGCGTGTTCGCGCCTGGTAGAGATTCTCGAAGACACCAGTGGGCCCCGTGT
GGAACCAAACCTGCCGCGTGGCCGGGCGTGGGACAAACGAGGCCGCGGAGACGAAGGCCAATGGCGAGGAAGT
TATCTGTAATCTTGATCCTGACCTTTGCCCTCTCTGTACAAATCCCCTTCATGAAGTAAAAGCAGCTGCTTTCC
CCCAGACCACTGAGAAAATTAGTCCGAATTGGGAATCTGGCATTAAATGTTGACTTGGCAATTTCCACACGGCAAT
ATCATCTACAACAGCTTTTCTACCGCTATGGAGAAAATAATTCTTTGTGAGTTGAAGGGTTCAGAAAATTACTTC
AAAAATATAGGCATAGATAAGATTAAAAGAATCCATATACACCATGACCACGACCATCACTCAGACCACGAGCATC
ACTCAGACCATGAGCGTCACTCAGACCATGAGCATCACTCAGACCACGAGCATCACTCTGACCATAATCATGCTG
CTTCTGGTAAAAATAAGCGAAAAGCTCTTTGCCAGACCATGACTCAGATAGTTCAAGTAAAGATCCTAGAAACA
GCCAGGGGAAAGGAGCTCACCAGCAGAACATGCCAGTGGTAGAAGGAATGTCAAGGACAGTGTAGTGCTAGTG
AAGTGACCTCAACTGTGTACAACACTGTCTCTGAAGGAATCACTTTCTAGAGACAATAGAGACTCCAAGACCTG
GAAAATCTTTCCCCAAAGATGTAAGCAGCTCCACTCCACCCAGTGTACATCAAAGAGCCGGGTGAGCCGGCTGG
CTGGTAGGAAAACAAATGAATCTGTGAGTGAGCCCCGAAAAGGCTTTATGTATTCCAGAAAACAAATGAAAATC
CTCAGGAGTGTTCATGTCATCAAAGCTACTGACATCTCATGGCATGGGCATCCAGGTTCCGCTGAATGCAACAG
AGTTCAACTATCTCTGTCCAGCCATCATCAACCAATGATGCTAGATCTTGCTGATTACATAAGTGAAAAGA
AGGCTGAAATCCCTCCAAAGACCTATTCAATACAAATAGCCTGGGTTGGTGGTTTTATAGCCATTTCCATCATCA
GTTTCCTGTCTCTGCTGGGGTTATCTTAGTGCTCTCATGAATCGGGTGTTTTTCAAATTTCTCTGAGTTTTCC
TTGTGGCACTGGCCGTTGGGACTTTGAGTGGTGATGCTTTTTTACACCTTCTCCACATTCTCATGCAAGTCACC
ACCATAGTCATAGCCATGAAGAACCAGCAATGGAATGAAAAGAGGACCACTTTTCAGTCATCTGCTTCTCAAA
ACATAGAAGAAAGTGCCTATTTTGATTCCACGTGGAAGGGTCTAACAGCTCTAGGAGGCCTGTATTTTCATGTTTC
TTGTTGAACATGTCTCATTGATCAACAATTTAAAGATAAGAAGAAAAGAATCAGAAGAAACCTGAAAATG
ATGATGATGTGGAGATTAAGAAGCAGTTGTCCAAGTATGAATCTCAACTTTCAACAAATGAGGAGAAAGTAGATA
CAGATGATCGAACTGAAGGCTATTTACGAGCAGACTCACAAGAGCCCTCCACTTTGATTCTCAGCAGCCTGCAG
TCTTGAAGAAGAAGAGGTATGATAGCTCATGCTCATCCACAGGAAGTCTACAATGAATATGTACCCAGAGGGT
GCAAGAATAAATGCCATTACATTTCCACGATACACTCGGCCAGTCAGACGATCTCATTACACCACCATCATGACT
ACCATCATATTCTCCATCATCACCACCACCAAAACCACCATCCTCACAGTCACAGCCAGCGCTACTCTCGGGAGG
AGCTGAAAGATGCCGGCGTCGCCACTTTGGCCTGGATGGTGATAATGGGTGATGGCCTGCACAATTTACGCGATG
GCCTAGCAATTGGTGCTGCTTTTACTGAAGGCTTATCAAGTGGTTTAAGTACTTCTGTGCTGTGTTCTGTCTATG
AGTTGCCTCATGAATTAGGTGACTTTGCTGTTCTACTAAAGGCTGGCATGACCGTTAAGCAGGCTGTCTTTTATA
ATGCATTGTGAGCCATGCTGGCGTATCTTGAATGGCAACAGGAATTTTCATTGGTCATTATGCTGAAAATGTTT
CTATGTGGATATTTGCACTTACTGCTGGCTTATTCATGTATGTTGCTCTGGTTGATATGGTACCTGAAATGCTGC
ACAATGATGCTAGTGACCATGGATGTAGCCGCTGGGGTATTTCTTTTACAGAATGCTGGGATGCTTTTGGGTT
TTGGAATTATGTTACTTATTTCCATATTTGAACATAAAATCGTGTTCGTATAAATTTCTAGTTAAGGTTTAAAT
GCTAGAGTAGCTTAAAAAGTTGTCATAGTTTCAGTAGGTCATAGGGAGATGAGTTTGTATGCTGTACTATGCAGC
GTTTAAAGTTAGTGGGTTTTGTGATTTTTGTATTGAATATTGCTGTCTGTTACAAAGTCAGTTAAAGGTACGTTT
TAATATTTAAGTTATTCTATCTTGGAGATAAAATCTGTATGTCAATTCACCGGTATTACCAGTTTATTATGTAA
ACAAGAGATTTGGCATGACATGTTCTGTATGTTTCAGGAAAAATGTCTTTAATGCTTTTCAAGAACTAACACA
GTTATTCCTATACTGATTTTAGGTCTCTGAAGAACTGCTGGTG

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FIGURE 2104

MARKLSVILILTFALSVTNPLHELKAAAFPQTTEKISPWNWESGINVDLAISTRQYHLQQLFYRYGENNSLSVEGF
RKLLQNIIGIDKIKRIHIHHDHHDHSDHEHHS DHERHSDHEHHS DHEHHS DHNHAASGKNKRKALCPDHSDSDSSGK
DPRNSQGGKAHRPEHASGRNRNVKDSVSASEVTSTVYNTVSEGTHFLETIETPRPGKLFPKDVSSSTPPSVTSKSR
VSRLAGRKTNESVSEPRKGFMYSRNTNENPQECFNASKLLTSHGMGIQVPLNATEFNLYLCPAIINQIDARSCLIH
TSEKKAEIPPKTYSLQIAWVGGFIAISIIISFLSLLGVILVPLMNRVFFKFLLSFLVALAVGTLSGDAFLHLLPHS
HASHHSHSHEEPAMEMKRGPLFSHLSSQNIIEESAYFDSTWKGLTALGGLYFMFLVEHVLTLLIKQFKDKKKKNQK
KPENDDDVEIKKQLSKYESQLSTNEEKVDTDDRTEGYLRADSQEP SHFDSQQPAVLEEEVMIHAHAPQEVYNEY
VPRGCKNKCHSHFHD TLGQSDDL IHHHHDYHHILHHHHHQNHHPHSHSQRY SREELKDAGVATLAWMVIMGDGLH
NFS DGLAIGA AFTEGLSSGLSTSVAVFCHELPHELGDFAVLLKAGMTVKQAVLYNALSAMLAYLGMATGIFIGHY
AENVSMWIFALTAGLFMYVALVDMVPEMLHNDASDHGCSRWGYFFLQ NAGMLLGFGIMLLIPYLNKSCSYKFLV
KV

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FIGURE 2105

GTATCTGTGGTAAACCCAGTGACACGGGGGAGATGACATACAAAAAGGGCAGGACCTGAGAAAGATTAAAGCTGCA
GGCTCCCTGCCCCATAAAACAGGGTGTGAAAGGCATCTCAGCGGCTGCCCCACCATGGCTACCTGGGCCCTCCTGC
TCCTTGCAGCCATGCTCCTGGGCAACCCAGGTCTGGTCTTCTCTCGTCTGAGCCCTGAGTACTACGACCTGGCAA
GAGCCCACCTGCGTGATGAGGAGAAATCCTGCCCCTGCCTGGCCCAGGAGGGCCCCCAGGGTGACCTGTTGACCA
AAACACAGGAGCTGGGCCGTGACTACAGGACCTGTCTGACGATAGTCCAAAACTGAAGAAGATGGTGGATAAGC
CCACCCAGAGAAGTGTTCATGCTGCGACCCGGGTGTGTAGGACGGGGAGGTACGATGGCGCGACGTCTGCA
GAAATTTTCATGAGGAGGTATCAGTCTAGAGTTACCCAGGGCCTCGTGGCCGGAGAACTGCCCAGCAGATCTGTG
AGGACCTCAGGTTGTGTATACCTTCTACAGGTCCCCTCTGAGCCCTCTCACCTTGTCTGTGGAAGAAGCACAGG
CTCCTGTCCTCAGATCCCGGAACCTCAGCAACCTCTGCCGGCTCCTCGCTTCTCGATCCAGAATCCACTCTCC
AGTCTCCCTCCCCTGACTCCCTCTGCTGTCTCCCTCTCACGAGAATAAAGTGTCAGCAAG

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FIGURE 2106

MATWALLLLAAMLLGNPGLVFSRLSPEYYDLARAHLRDEEKSCPCLAQEGPQGDLLTKTQELGRDYRTCLTIVQK
LKKMVDKPTQRSVSNAATRVCRTGRSRWRDVCNFMRRYQSRVTQGLVAGETAQQICEDLRLCIPSTGPL

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FIGURE 2107

CGGTTCTCCAAGCACCAGCATCCTGCTAGACGCGCGCGCACCAGCGAGGGGACATGGGCAGAGCAATGGTGG
CCAGGCTGGGGCTGGGGCTGCTGCTGCTGGCACTGCTCCTACCCACGCAGATTTATTCCAGTGAAACAACAACCTG
GAACTTCAAGTAACCTCCTCCCAGAGTACTTCCAACCTCTGGGTTGGCCCCAAATCCAATAATGCCACCACCAAGG
CGGCTGGTGGTGCCCTGCAGTCAACAGCCAGTCTCTTCGTGGTCTCACTCTCTCTTCTGCATCTCTACTCTTAAG
AGACTCAGGCCAAGAAACGTCTTCTAAATTTCCCCATCTTCTAAACCCAATCCAATGGCGTCTGGAAGTCCAAT
GTGGCAAGGAAAAACAGGTCTTCATCGAATCTACTAATTCCACACCTTTTATTGACACAGAAAATGTTGAGAATC
CCAAATTTGATTGATTTGAAGAACATGTGAGAGGTTTACTAGATGATGAATGCCAATATTAAATCTGCTGGAGT
TTCATGTACAAGATGAAGGAGAGGCAACATCCAAAATAGTTAAGACATGATTTCTTGAATGTGGCTTGAGAAAT
ATGGACACTTAATACTACCTTGAAAAATAAGAATAGAAATAAAGGATGGGATTGTGGAATGGAGATTAGTTTTCA
TTGGTTTCATTAATTCTATAAGGCCATAAAACAGGTAATATAAAAAGCTTCCATCGATCTATTTATATGTACATGA
GAAGGAATCCCCAGGTGTTACTGTAATTCCTCAACGTATTGTTTCGACGGCACTAATTTAATGCCGATATACTCT
AGATGAATGTTTACATTGTTGAGCTATTGCTGTTCTCTTGGGAACGAACTCACTTTCTCTGAGGCTTTGGAT
TTGACATTGCATTGACCTTTTAGGTAGTAATTGACATGTGCCAGGGCAATGATGAATGAGAATCTACCCCAGAT
CCAAGCATCCTGAGCAACTCTTGATTATCCATATTGAGTCAAATGGTAGGCATTTCTATCACCTGTTTCCATTC
AACAAGAGCACTACATTCTTTTAGCTAAACGGATTCCAAAGAGTAGAATTGCATTGACCACGACTAATTTCAAAA
TGCTTTTTATTATTATTATTTTTTAGACAGTCTCACTTTGTGCGCCAGGCCGGAGTGCAGTGGTGCGATCTCAGA
TCAGTGATACCAATTTGCTTCCCGGGCTCAAGCGATTCTCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCAC
CTGCCACCATGCCCGGCTAATTTTTGTAATTTTAGTAGAGACAGGGTTTCACCATGTTGCCAGGCTGGTTTAGA
ACTCCTGACCTCAGGTGATCCACCCGCTCGGCCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCCCCGCGCCCA
GCCATCAAAATGCTTTTTATTCTGCATATGTTTGAATACTTTTACAATTTAAAAAATGATCTGTTTGAAGG
CAAAATTGCAATCTTGAAATTAAGAAGGCAAAATGTAAAGGAGTCAAATAAATCAAGTATTTGGGAAGTGA
AGACTGGAAGCTAATTTGCATAAATTCACAACTTTTATACTCTTCTGTATATACATTTTTTTCTTTAAAAAA
CAACTATGGATCAGAAATAGCAACATTTAGAACACTTTTTGTTATCAGTCAATATTTTATAGATAGTTAGAACCTGG
TCCTAAGCCTAAAGTGGGCTTGATTCTGCAGTAAATCTTTACAACCTGCCTCGACACACATAAACCTTTTTAAA
AATAGACACTCCCCGAAGTCTTTTGTGTTGATGGTCACACACTGATGCTTAGATGTTCCAGTAATCTAATATGGC
CACAGTAGTCTTGATGACCAAGTCCTTTTTTCCATCTTTAGAAAACATACATGGGAACAAACAGATCGAACAGT
TTTGAAGCTACTGTGTGTGAATGAACACTCTTGCTTTATCCAGAATGCTGTACATCTATTTGGATTGTATA
TTGTGGTTGTGATTTACGCTTTGATTCATAGTAACTTCTTATGGAATTGATTGCATTGAACGACAAACTGTAA
ATAAAAAGAAACGGTG

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FIGURE 2108

MGRAMVARLGLGLLLLALLLPTQIYSSETTTGTSSNSSQSTSNGLAPNPTNATTKAAGGALQSTASLFVVSLSL
LHLYS

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FIGURE 2109

CTTCGGGCTTGGTAAACATAAAAGTTTGTTCACCACGTAAGCCGGACCTCGCACTCCGGTCCCGGTCTCGTCGC
CAAGATGGTGAAGCCCAAGTACAAAGGACGGAGCACCATCAACCCGTCCAAGGCCAGCACAAACCCAGATCGAGT
GCAGGGAGCAGGAGGCCAAAACATGAGGGACCGGGCCACCATCCGGCGCCTGAATATGTATAGGCAAAAGGAGCG
CAGGAACAGTCGTGGTAAAATAATTAAACCCCTGCAATATCAATCAACGGTGGCTTCTGGCACAGTGGCAAGAGT
AGAGCCAAATATTAAATGGTTTGGAAACACACGTGTGATTAAGCAGTCATCATTACAAAAATTTCAAGAGGAAAT
GGATACAGTTATGAAGGATCCATACAAAGTTGTGATGAAGCAAAGCAAGTTACCAATGTCTCTTCTCCATGATCG
AATCCGGCCTCATAACTTGAAGGTGCACATTCTTGATACTGAAAGTTTTGAAACTACATTTGGCCCTAAGTCACA
GAGGAAACGACCAAACTTATTTGCAAGTGATATGCAGTCTCTTATCGAAAATGCTGAAATGTCCACTGAGAGCTA
TGACCAGGGCAAGGATCGTGATTTGGTAACTGAAGACACTGGTGTGAGAAATGAAGCTCAAGAAGAGATCTATAA
AAAGGGACAGTCCAAAAGAATATGGGGTGAGCTCTACAGGTGATAGATTCAATCAGATGTTGTAGTTCAAGTTCT
TGATGCTAGAGATCCAAATGGGTACTCGTTCCCTCACCATTGAAACTTACCTGAAGAAGGAAAAACCTTGAAACA
CCTCATTTTTGTACTTAAACAAATGTGACCTTGTTCACCTGGGCAACAAAACGGTGGGTTGCTGTCTCTCCCA
GGATTATCCAACACTTGCTTTCCATGCAAGCCTTACTAACCCGTTTGGCAAGGGAGCATTCAATCAGCTTCTGCG
GCAGTTTGGAAAGTTGCACACTGACAAGAAACAGATCAGTGTGGGTTTATTGGCTATCCAAATGTTGGCAAGAG
CTCTGTGATAAATACATTGCGTTCTAAGAAAGTTTGAACGTGGCTCCCATTCAGGTGAAACAAAGGTCTGGCA
GTATATTACTTTGATGCGTCGGATATTCCTGATTGACTGTCCAGGTGTGGTTTACCCCTCTGAGGACTCCGAGAC
AGACATTGTGCTAAAAGGAGTTGTTCAAGTAGAAAAATTAAGAGTCTGAAGACCACATTGGTGCTGTACTTGA
ACGAGCAAAGCCAGAATATATCAGCAAAACATAACAAGATTGATTCTTGGGAGAATGCTGAGGACTTTCTTGAGAA
GCTCGCTTTCCGGACTGGGAAGTTACTAAAGGGTGGAGAGCCCGACTTGCAAGTGTGGGTAAAGTGGTCTCTCAA
TGACTGGCAGAGGGGCCGATTCTTTCTTTGTCAAGCCACCCAATGCAGAGCCACTTGTGGCCCCCAGCTTCT
ACCCCTCCTCATCTTTGGAAGTTGTCCCAGAAGCAGCCAGAACCAATCCAGGGGAGGAAGTCACAGAACTGCAGG
TGAAGGGTCAGAATCCATCATTAAAGGAAGAAACAGAAGAGAACAGTCACTGTGATGCTAACACAGAGATGCAGCA
GATTCTCACACGAGTTCGGCAGAACTTTGGTAAAATCAACGTGGTGCCTCAGTTTTCTGGGGATGACCTGGTTCC
TGTGGAGGTGTCAGATCTTGAGGAAGAGCTTGAGAGCTTTTCTGATGAAGAGGAGGAGGAACAGGAGCAACAAAG
AGATGATGCGGAAGAGTCTTCTCGGAGCCTGAGGAGGAAAATGTGGGAAACGACACCAAAGCCGTATTAAAGC
ACTGGATGAGAAGATTGCCAAATATCAGAAGTTTCTAGACAAAGCCAAAGCCAAAAAGTTTTTCAGCAGTCAGAAT
ATCCAAGGGACTGAGTGAAGATATTTGCAAAACCTGAAGAACAAAGAAAAACACTGGAAGAAGATGTAGATGA
CAGAGCACCTTCCAAAAGGGAAAGAAGCGGAAGGCACAAAGGAAGAGGAACAGGAACATTCAAAATAAGCTCC
CAGGGCGCTTACATCAAAGAACGGAGGCGAGCAGTACGACAGCAACGGCCGAAAAAGTTGGTGTGCGCTACTA
TGAAACACACAACGTGAAAAATAGGAACAGGAACAAAAAGAAGACCAATGACTCAGAGGGACAGAAACACAAACG
CAAAAAATTCAGACAAAAGCAGTAATGTTTAAAAGGTTTTTATTAAATTATACAAAAACAGGCAAAAAA
AAAAAA

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FIGURE 2110

MVKPKYKGRSTINPSKASTNPDRVQGAGGQNMRRATIRRLNMYRQKERRNSRGKIIKPLQYQSTVASGTVARVE
PNIKWFGNTRVIKQSSLQKFQEEMDTVMKDPYKVVMMQSKLPMSLLHDRI RPHNLKVHILDTESEFETTFGPKSQR
KRPNLFASDMQSLIENAEMSTESYDQGKDRDLVTEDTGV RNEAQEEIYKKGQSKRIWGELYKVIDSSDVVVQVLD
ARDPMGTRSPHIETYLKKEKPWKHLIFVLNKC DLVPTWATKRWVAVLSQDYPTLAFHASLTNPFGKGAFIQLLRQ
FGKLHTDKKQISVGFIGYPNVGKSSVINTLR SKKVCNVAPIAGETKVWQYITLMRRIFLIDCPGVVYPS E D S E T D
IVLKGVVQVEKIKSPEDHIGAVLERAKPEYISK TYKIDSWENAEDFLEKLA FRTGKLLKGGE PDLQTVGKMVLND
WQRGRIPFFVKPPNAEPLVAPQLLPSSSLEV VPEAAQN NPGE E V T E T A G E G S E S I I K E E T E E N S H C D A N T E M Q Q I
LTRVRQNF GKIN VVPQFSGDDLVPVEVSDLEEELESFSDEEEEEEQEQQRDDAEESSEPEEEENVGNDTKAVIKAL
DEKIAKYQKFLDKAKAKKFSAVRISKGLSEKIFAKPEEQRK TLEEDVDDRAPS KKGKKRKAQREEEQEHSNKAPR
ALTSKERRRAVRQQRPKKVGVRYYETHNVKNRNRNKKKTNDSEGQKHKKKFRQKQ

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FIGURE 2111

GGCACGAGGGCTGCCACGGCATGGAGAAATGGCTCCGCTTCTGTTGCAGCTGGCGGTGCTCGGCGGGCGCTGGCG
GCCGCAGCCCTCGTACTGATTTCCATCGTTGCATTTACAACCTGCTACAAAAATGCCAGCACTCCATCGACATGAA
GAAGAGAAATTCTTCTTAAATGCCAAAGGCCAGAAAGAACTTTACCCAGCATATGGGACTCACCTACCAAACAA
CTTCTGTTCGTTGTGCCTTCATACAATGAAGAAAAACGGTTGCCTGTGATGATGGATGAAGCTCTGAGCTATCTA
GAGAAGAGACAGAAACGAGATCCTGCGTTCACTTATGAAGTGATAGTAGTTGATGATGGCAGTAAAGATCAGACC
TCAAAGGTAGCTTTTAAATATTGCCAGAAATATGGAAGTGACAAAGTACGTGTGATAACCCCTGGTGAAGAATCGT
GGAAAAGGTGGAGCGATTAGAATGGGTATATTAGTTCTCGAGGAGAAAAGATCCTTATGGCAGATGCTGATGGA
GCCACAAAGTTTCCAGATGTTGAGAAATTAGAAAAGGGGCTAAATGATCTACAGCCTTGGCCTAATCAAATGGCT
ATAGCATGTGGATCTCGAGCTCATTTAGAAAAAGAATCAATTGCTCAGCGTTCTTACTTCCGTACTCTTCTCATG
TATGGGTTCCACTTTCTGGTGTGGTTCCTTTGTGTCAAAGGAATCAGGGACACACAGTGTGGGTTCAAATTATTT
ACTCGAGAAGCAGCTTCACGGACGTTTTTCATCTCTACACGTTGAACGATGGGCATTTGATGTAGAACTACTGTAC
ATAGCACAGTTCTTTAAATTTCCAATAGCAGAAATTGCTGTCAACTGGACAGAAATTGAAGGTTCTAAATTAGTT
CCATTCTGGAGCTGGCTACAAATGGGTAAAGACCTACTTTTATACGACTTCGATATTTGACTGGTGCCTGGAGG
CTTGAGCAAACCTCGGAAAATGAATTAGGTTGTTTGCAGTCTTCAGTTGTGTTCTTATGCTTCAGTGTACATTTT
ATTTCAATTTGAACTAAAAATTTTAAGTAAAGCTGAAATAAACTTCTTGTCAATGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2112

MAPLLLQLAVLGAALAAAALVLISIVAF TTATKMPALHRHEEEKFFLNAKGQKETLPSIWDSPTKQLSVVVP SYN
EEKRLPVMMDEALSYLEKRQKRDP AFTYEIVIVDDGSKDQTSKVAFKYCQKYGSDKVRVITLVKNRGKGG AIRMG
IFSSRGEKILMADADGATKFPDVEKLEKGLNDLQFPWNQMAIACGSRAHLEKESIAQRSYFRTLLMYGFHFLVWF
LCVKGIRD TQCGFKLFTREASRTFSSLHVERWAFDVELLYIAQFFKIPIAEIAVNWTEIEGSKLVPFWSWLQMG
KDLLFIRLRYLTGAWRLEQTRKMN

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FIGURE 2113

GCCTTGCAGAACTTCTACTTGCCTGCCTCCCTGCCTCTGGCCATGGCCTGCCGGTGCCTCAGCTTCCTTCTGATG
GGGACCTTCCGTGTCAGTTTCCCAGACAGTCCTGGCCAGCTGGATGCACTGCTGGTCTTCCCAGGCCAAGTGGCT
CAACTCTCCTGCACGCTCAGCCCCAGCACGTACCATCAGGGACTACGGTGTGTCCTGGTACCAGCAGCGGGCA
GGCAGTGGCCCTCGATATCTCCTCTACTACCGCTCGGAGGAGGATCACCACCGGCCCTGCTGACATCCCCGATCGA
TTCTCGGCAGCCAAGGATGAGGCCCCAATGCCTGTGTCTCACCATTAGTCCCGTGCAGCCTGAAGACGACGCG
GATTACTACTGCTCTGTTGGCTACGGCTTTAGTCCCAGGGGTGGGGTGTGAGATGGGTGCCTCCCCTCTGCCTC
CCATTTCTGCCCCTGACCTTGGGTCCCTTTTAACTTTCTCTGAGCCTTGCTTCCCCTCTGTAAAATGGGTTAAT
AATATTCAACAIGTCAACAAAAA

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FIGURE 2114

MACRCLSFLMGTFLSVSQTVLAQLDALLVFPGQVAQLSCTLSPQHVTIRDYGVSWYQQRAGSAPRYLLYYRSEE
DHHRPADIPDRFSAAKDEAHNACVLTISPVPEDDADYYCSVGYGFSF

AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2116

MCRKICAALDLWSNPHNHQYCLRLPAGSQGLRDSIFKGICTSLSSCTLVFYSLQPRITPQSFPAPYLCSDLQQNV
FHLSFKSVACNLCPH

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FIGURE 2117

CAGTGGCGGGATGTACGGATGATTCACTGGCTGGCAGGAAGCCCGCCCTGCCCGCCCGCCAGTGTCACTGGTGT
TGGCATCAGCTTGGGCAGGTGTGCGGGCTCAGGATGGGGCGGCCGTGTTGAGGAACCCCTGGACTCTCAGAGATGG
AATTTACCGTGTTCCTAGGCTGGTCTGGAGCTCTTGATCTCAAGCGATCCTCCCTGCCCTCGGCCTCCCAACGT
GCTGGGATTATAGGCGTGAGCCACCGCTCCTGGCCAGGGTCTGTTCCCTAGTTGCAACAGTTCTTGGAACCCACT
CGAGAGGGCCACGCTCCATTACAGGCCACGCATCACAAGAGGCAACACCAGGAGCCAACTAGAGCTCGGGGA
CTGAACTGCTGTGGCCCGGAGCAGCGCTGCTGGTGTGTTGGGGGTGGCAGCCAGTCTGTGTGTGCGCTGCTCAC
GCCCAGGTGCAAAGAGGTGAGAGAAAATCTACCAGCAGAGAAGTCTGCGTGAGGACCAACAGAGCTTTACGGGGT
CCCGGACCTACTCCTTGGTGGGCAGGCATGGCCAGGACCCCTGGCGGACATGGCACCCACAAGGAAGGACAAGC
TGTGCAATTCTACCCAGCCTGGAGGATCCAGCATCTTCAGGTACCAGAACTTCAGCAAAGGAAGCAGACACG
GGTCGGAGGAAGCCTACATAGACCCCATTTGCCATGGAGTATTACAAGTGGGGGCGGTTCTCGAAGCCCCCAGAAG
ATGATGATGCCAATTCTACGAGAATGTGCTCATTGCAAGCAGAAAACACAGAGACAGGTGCCAGCAGGAGG
GCATAGGTGGCCTCTGCAGAGGGGACCTCAGCCTGTCACTGGCCCTGAAGACTGGCCCCACTTCTGGTCTCTGTC
CCTCTGCCCTCCCCGGAAGAAGATGAGGAATCTGAGGATTATCAGAACTCAGCATCCATCCATCAGTGGCGCGAGT
CCAGGAAGGTGATGGGGCAACTCCAGAGAGAAGCATCCCTGGCCCGGTGGGAAGCCCAGACGAGGAGGACGGGG
AACCGGATTACGTGAATGGGGAGGTGGCAGCCACAGAAGCCTAGGGCAGACCAAGAAGAAAGGAGCCAAGGCAAA
GAGGGACCACTGTGCTCATGGACCCATCGCTGCCTTCCAAGGACCATTTCAGAGCTACTCAACTTTTAAGCCC
CTGCCATGGTTGCTCCTGGAAGGAGAACCAGCCACCCTGAGGACCACCTGGCCATGCGTGACAGCCTGGGAAAA
GACAGTTACTCACGGGAGCTGCAGGCCCGTCACCAAGCCCTCTCCCGACCCAGGCTTTGTGGGGCAGGCACCTGG
TACCAAGGGTAACCCGGCTCCTGGTATGGACGGATGCGCAGGATTTAGGATAAGCTGTCAACCCAGTCCCCATAAC
AAAACCACTGTCCAACACTGGTATCTGTGTTCTTTGTGCTATGAATTTGGATTCTTAATTGCTATTGTTGGTTG
CTGGGGTTTTAAATGATTGATAAGCTTGTACAGTTAACTTATAGAGGGGGAGCCATATTTAACATTCTGGATTTT
AGAGTAGAGATTTCTGTGTTGTCTCCTAGAAAGCATTACATGTAGTTTATTTTTCAGCATCCTTGTGGGTGGGGCC
CTGGCTCTCTTCCCCTTTGGTGGGACCTCCCCTTTCTTTGGGCTTCAGTTCACTCAGGAAGAAATGAGGCTGTG
CCATCTTTATGTGCTTCCAGTGGAAATGTCACTTGCTACAGACAATAGTGCATGAGAGTCTAGAGAAGTAGTGAC
CAGAACAGGGCAGAGTAGGTCCCCTCCATGGCCCTGAATCCTCCTCTGCTCCAGGGCTGGCCTCTGCAGAGCTGA
TTAAACAGTGTGTGACTGTCTCATGGGAAGAGCTGGGGCCCAGAGGGACCTTGAGTCAGAAATGTTGCCAGAAA
AAGTATCTCCTCCAACCAAAACATCTCAATAAAACCATTTTAGTTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 2118

MSSGTELLWPGAALLVLLGVAASLCVRCSRPGAKRSEKIYQQRSLREDQQSFTGSRTYSLVGQAWPGPLADMAPT
RKDKLLQFYPSLEDPASSRYQNFSGSRHGSEEAYIDPIAMEYYNWGRFSKPPEDDDANSYENVLICKQKTTETG
AQQEGIGGLCRGDLSSLALKTGPTSGLCPSASPEEDEESEDYQNSASIHQWRESRKVMGQLQREASPGPVGSPD
EEDGEPTYVNGEVAATEA

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FIGURE 2119

GGTCGCTTGGTGGCTCCGTCTGTTGTCCGTCCGCCCGCGGGTGCCATCATGGCGGACGCGGCCAGTCAGGTGCTC
CTGGGCTCCGGTCTCACCATCCTGTCCCAGCCGCTCATGTACGTGAAAGTGCTCATCCAGGTGGGATATGAGCCT
CTTCCTCCAACAATAGGACGAAATATTTTTGGGCGGCAAGTGTGTGTCAGCTTCTTGTCTCTTTAGTTATGCTCAG
CACATTGCCAGTATCGATGGGAGGCGCGGGTTGTTACAGGCTTAAGTCCAAGACTGTGTTGCGGAGTCTTGGGA
ACTGTGGTCCATGGTAAAGTTTTACAGCATTACCAGGAGAGTGACAAGGGTGAGGAGTTAGGACCTGGAAATGTA
CAGAAAGAAGTCTCATCTTCTTTGACCACGTTATCAAGGAGACAAGTCAAGAGATGATCGCTCGTTCTGCTGCT
ACCTTCATCACACATCCCTTCCATGTGATCACTCTGAGATCTATGGTACAGTTTATTGGCAGAGAATCCAAGTAC
TGTGGACTTTGTGATTCCATAATAACCATCTATCGGGAAGAGGGCATTCTAGGATTTTTTCGCGGGTCTTGTTCCT
CGCCTTCTAGGTGACATCCTTTCTTGTGGCTGTGTAAGTCACTGGCCTACCTCGTCAATACCTATGCACTGGAC
AGTGGGGTTTTCTACCATGAATGAAATGAAGAGTTATTCTCAAGCTGTACAGGATTTTTTGCAGATATGTTGACC
TATCCCTTTGTGCTTGTCTCCAATCTTATGGCTGTCAACAAGTGTGGTCTTGCTGGTGGATGCCCTCCTTACTCC
CCAATATATACGTCTTGGATAGACTGTTGGTGCATGCTACAAAAAGAGGGGAATATGAGCCGAGGAAATAGCTTA
TTTTTCCGGAAGGTCCCTTTGGGAAGACTTATTGTTGTGACCTGAAAATGTTAATTTGAAGATGTGGGGCAGGG
ACAGTGACATTTCTGTAGTCCCAGATGCACAGAATTATGGGAGAGAATGTTGATTTCTATACAGTGTGGCGCGCT
TTTTTAATAATCATTTAATCTTGGGAAAATTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2120

MADAASQVLLGSGLTILSQPLMYVKVLIQVGYEPLPPTIGRNIFGRQVCQLPGLFSYAQHIASIDGRRGLFTGLT
PRLCSGVLGTVVHGKVLQHYQESDKGEELGPGNVQKEVSSSFDHVIKETTREMIARSAATLITHPFHVITLRSMV
QFIGRESKYCGLCDSIITIIYREEGILGFFAGLVPRLLDILSLWLCNSLAYLVNTYALDSGVSTMNEMKSYSQAV
TGFFASMLTYPFVLVSNLMAVNNCGLAGGCPPYSPIYTSWIDWCMLQKEGNMSRGNSLFFRKVPFGKTYCCDLK
MLI

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FIGURE 2121

AGCTGCGGGCGGCCGAGGTTCCAAAGCGGGTCCGAGCCGCCGCCGCGCGCGCCGCGCACTGCAGCCCCAGGCC
CCGGCCCCCCCCACCCACGTCTGCGTTGCTGCCCCGCTGGGCCAGGCCCCAAAGGCAAGGACAAAGCAGCTGTCAG
GGAACCTCCGCCGGAGTCGAATTTACGTGCAGCTGCCGGCAACCACAGGTTCCAAGATGGTTTGGGGGGCTTCG
CGTGTTCGAAGAACTGCCTGTGCGCCCTCAACCTGCTTTACACCTTGTTAGTCTGCTGCTAATTGGAATTGCTG
CGTGGGGCATTGGCTTCGGGCTGATTTCCAGTCTCCGAGTGGTCGGCGTGGTCATTGCAGTGGGCATCTTCTTGT
TCCTGATTGCTTTAGTGGGTCTGATTGGAGCTGTAAACATCATCAGGTGTTGCTATTTTTTATATGATTATTC
TGTTACTTGTATTTATTGTTTCAGTTTTCTGTATCTTGCGCTTGTTTAGCCCTGAACCAGGAGCAACAGGGTCAGC
TTCTGGAGGTTGGTTGGAACAATACGGCAAGTGTCTGAAATGACATCCAGAGAAATCTAACTGCTGTGGGTTCC
GAAGTGTTAAACCAAATGACACCTGTCTGGCTAGCTGTGTTAAAGTGACCACTCGTGCTCGCCATGTGCTCCAA
TCATAGGAGAATATGCTGGAGAGGTTTTGAGATTTGTTGGTGGCATTGGCCTGTTCTTCAGTTTTACAGAGATCC
TGGGTGTTTGGCTGACCTACAGATACAGGAACCCAGAAAGACCCCCGCGCAATCCTAGTGCATTCCCTTTCATGAG
AAAACAAGGAAGATTTCCCTTCGTATTATGATCTTGTTCACTTCTGTATTTTCTGTTAAGCTCCATTTGCCAG
TTTAAGGAAGGAAACACTATCTGGAAGTACCTTATTGATAGTGAATTATATATTTTTACTCTATGTTTCTCT
ACATGTTTTTTTTCTTTCCGTTGCTGAAAAATATTTGAACTTGTGGTCTCTGAAGCTCGGTGGCACCTGGAATTT
ACTGTATTCAATTGTCGGGCACGTCCACTGTGGCCTTTCTTAGCATTTTTACCTGCAGAAAACTTTGTATGGTA
CCACTGTGTTGGTTATATGGTGAATCTGAACGTACATCTCACTGGTATAATTATATGTAGCACTGTGCTGTGTAG
ATAGTTCCTACTGGAAGGAGTGGAAATTTATTAATAATCAGAAAGTATGAGATCCTGTTATGTTAAGGGAAATC
CAAATTCCTAATTTTTTTTTGGTCTTTTTAGGAAAGATGTGTTGTGGTAAAAAGTGTAGTATAAAAAATGATAATT
TACTTGTAGTCTTTTATGATTACACCAATGTATTCTAGAAATAGTTATGTCTTAGGAAATTGTGGTTTAATTTTT
GACTTTTACAGGTAAGTGCAAAGGAGAAGTGGTTTCATGAAATGTTCTAATGTATAATAACATTTACCTTCAGCC
TCCATCAGAAATGGAACGAGTTTTGAGTAATCAGGAAGTATATCTATATGATCTTGATATTGTTTTATAATAATTT
GAAGTCTAAAGACTGCATTTTTAAACAAGTTAGTATTAATGCGTTGGCCACGTAGCAAAAAGATATTGATTA
TCTTAAAAATTGTTAAATACCGTTTTTCATGAAAGTCTCAGTATTGTAACAGCAACTGTCAAACCTAAGCATAT
TTGAATATGATCTCCATAATTTGAAATTGAAATCGTATTGTGTGGCTCTGTATATTCTGTTAAAAAATTAAAGG
ACAGAAACCTTTCTTTGTGTATGCATGTTGAATTAAAGAAAGTAATGGAAGAATTGATCGATGAAAAAAAAA

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FIGURE 2122

MVCGGFACSKNCLCALNLLYTLVSLLLIGIAAWGIGFGLISSLRVVGVVIAVGIFLFLIALVGLIGAVKHHQVLL
FFYMIILLLVFIVQFSVSCACLALNQEQQGQQLLEVGVNNTASARNDIQRNLNCCGFRSVNPNDTCLASCVKSDHS
CSPCAPIIGEYAGEVLRVFGGIGLFFSFTEILGVWLTYYRNRQKDPRANPSAFL

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FIGURE 2123

GGCAGGAGGAAAAATCAAGATAAAAAATGTTTACAAATTAAGCTCCTTCTTTTATTGTTTCTCTAGTTATTTCTCC
AGAATTGATCAAGACAATTCATCATTGATTCTCTATCTCCAGAGCCAAAATCAAGATTTGCTATGTTAGACGAT
GTAAAAATTTTAGCCAATGGCCTCCTTCAGTTGGGACATGGTCTTAAAGACTTTGTCCATAAGACGAAGGGCCAA
ATTAATGACATATTTCAAAAACCTCAACATATTTGATCAGTCTTTTTATGATCTATCGCTGCAAACAGTGAAATC
AAAGAAGAAGAAAAGGAACTGAGAAGAACTACATATAAACTACAAGTCAAAAATGAAGAGGTAAAGAATATGTCA
CTTGAACCTCAACTCAAACTTGAAAGCCTCCTAGAAGAAAAAATTCTACTTCAACAAAAAGTGAAATATTTAGAA
GAGCAACTAACTAACTTAATTCAAAATCAACCTGAACTCCAGAACACCCAGAAGTAACCTCACTTAAACTTTTT
GTAGAAAAACAAGATAATAGCATCAAAGACCTTCTCCAGACCGTGAAGACCAATATAAACAAATTAAACCAACAG
CATAGTCAAATAAAAGAAATAGAAAATCAGCTCAGAAGGACTAGTATTCAAGAACCCACAGAAATTTCTCTATCT
TCCAAGCCAAGAGCACCAAGAAGTACTCCCTTTCTTCAGTTGAATGAAATAAGAAATGTAAAACATGATGGCATT
CCTGCTGAATGTACCACCATTTATAACAGAGGTGAACATACAAGTGGCATGTATGCCATCAGACCCAGCAACTCT
CAAGTTTTTCATGTCTACTGTGAIGTTATATCAGGTAGTCCATGGACATTAATTCAACATCGAATAGATGGATCA
CAAACTTCAATGAAACGTGGGAGAACTACAAATATGGTTTTGGGAGGCTTGATGGAGAATTTTGGTTGGGCCTA
GAGAAGATATACTCCATAGTGAAGCAATCTAATTATGTTTTACGAATTGAGTTGGAAGACTGGAAAGACAACAAA
CATTATATTGAATATTCTTTTTACTTGGGAAATCACGAAACCAACTATACGCTACATCTAGTTGCGATTACTGGC
AATGTCCCAATGCAATCCCGGAAAACAAAGATTTGGTGTCTTCTACTTGGGATCACAAAGCAAAAGGACACTTC
AACTGTCCAGAGGGTTATTCAGGAGGCTGGTGGTGGCATGATGAGTGTGGAGAAAAACCTAAATGGTAAATAT
AACAAACCAAGAGCAAAATCTAAGCCAGAGAGGAGAAGAGGATTATCTTGGAAGTCTCAAAATGGAAGGTTATAC
TCTATAAAATCAACCAAAATGTTGATCCATCCAACAGATTCAGAAAGCTTTGAATCAACTGAGGCAAAATTTAAA
GGCAATAATTTAAACATTAACTCATTCCAAGTTAATGTGGTCTAATAATCTGGTATTAAATCCTTAAGAG

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FIGURE 2124

MFTIKLLLFIVPLVISSRIDQDNSSFDSLSPEPKSRFAMLDDVKILANGLLQLGHGLKDFVHKTGQINDIFQKL
NIFDQSFYDLSLOTSEIKEEEKELRRTTYKLQVKNEEVKNMSLELNSKLESLEEKILLQOKVKYLEEQLTNLIQ
NQPETPEHPEVTSKTFVEKQDNSIKDLLQTVEDQYKQLNQOHSQIKEIENQLRRTSIQEPTEISLSSKPRAPRT
TPFLQLNEIRNVKHDGIPAECTTIYNRGEHTSGMYAIRPSNSQVFHVYCDVISGSPWTLIQHRIDGSQNFNETWE
NYKYGFGRLDGEFWLGLEKIYSIVKQSNYVLRIELEDWKDNKHYIEYSFYLGNHETNYTLHLVAITGNVPNAIPE
NKDLVFSTWDHKAKGFHNCPEGYSGGWWHDECGENNLNGKYNKPRAKSKPERRGLSWKSQNGRLYSIKSTKML
IHPTDSESFE

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FIGURE 2125

TGGTAGTAAGTTCTATAGAGCAAAAAACAAGTTTAAAGAAGGAGGTTGGGGGGAGGGGGCGATGGCGAAGCTCCGG
GTGGCTTACGAGTACACGGAAGCCGAGGACAAGAGCATCCGGCTCGGCTTGTTTCTCATCATCTCCGGCGTCGTG
TCGCTCTTCATCTTCGGCTTCTGCTGGCTGAGTCCCGCGCTGCAGGATCTGCAAGCCACGGAGGCCAATTGCACG
GTGCTGTGGTGCAGCAGATCGGCGAGGTGTTGAGTGCACCTTCACCTGTGGCGCCGACTGCAGGGGCACCTCG
CAGTACCCCTGCGTCCAGGTCTACGTGAACAACCTCTGAGTCCAACCTCTAGGGCGCTGCTGCACAGCGACGAGCAC
CAGCTCCTGACCAACCCCAAGTGCTCCTATATCCCTCCCTGTAAGAGAGAAAATCAGAAGAATTTGGAAAGTGTC
ATGAATTGGCAACAGTACTGGAAAGATGAGATTGGTTCCCAGCCATTTACTTGCTATTTTAATCAACATCAAAGA
CCAGATGATGTGCTTCTGCATCGCACTCATGATGAGATTGCTCCTGCTGCTTCTCTGGCCCCCTGGTGACA
TTTGTGGTGGGCGTTCTCATTGTGGTCCTGACCATCTGTGCCAAGAGCTTGGCGGTCAAGGCGGAAGCCATGAAG
AAGCGCAAGTTCTCTTAAAGGGGAAGGAGGCTTGTAGAAAGCAAAGTACAGAAGCTGTACTCATCGGCACGCGTC
CACCTGCGGAACCTGTGTTTCTGCGCAGGAGATGGACAGGGCCACGACAGGGCTCTGAGAGGCTCATCCCTCA
GTGGCAACAGAAACAGGCACAACCTGGAAGACTTGGAACCTCAAAGCTTGTATTCCATCTGCTGTAGCAATGGCTA
AAGGGTCAAGATCTTAGCTGTATGGAGTAACTATTTAGAAAACCTATAAGAAGTTTATTTTCTTTCAAAGTA
ACAGTATATTATTTGTACAGTGTAGTATACAAACCATTATGATTTATGCTACTTAAAAATATTAAAAATAGAGTGG
TCTGTGTTATTTTCTATTTCTTTTTTATGCTTAGAACACCAGGGTTTAAAAAAAAAAAAAAGGTGAGGACATCT
GGGTCTCATTGCTTCTGCTAGGTAAACTTTTACTTGACAACAAGGATTCCTGCT

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FIGURE 2126

MAKLRVAYEYTEAEDKSIRLGLFLIISGVVSLFIFGFCWLSPALQDLQATEANCTVLSVQQIGEVFECTFTCGAD
CRGTSQYPCVQVYVNNSESNSRALLHSDEHQLLTNPCKSYIPPCKRENQKNLESVMNWQQYWKDEIGSQPFTCYF
NQHQRPDDVLLHRTHDEIVLLHCFLWPLVTFVVGVLIVVLTICAKSLAVKAEAMKKRKFS

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FIGURE 2127

ACTGTCTGCACAGACAGCACCATGTGCTCATGGTCGTCAGCATGGCGTGTGTTGGGTTCTTCTTGCTGCAGGGG
GCCTGGCCACATGAGGGAGTCCACAGAAAACCTTCCCTCCGGGCCCCACCCAGGTCCCCTGGTGAAATCAGAAGAG
ACAGTCATCCTGCAATGTTGGTCAGATGTCAGGTTTGAGCACTTCCTTCTGCACAGAGAAGGGAAGTTTAAAGGAC
ACTTTGCGCCTCATTGGAGAGCACCATGATGGGGTCTCCAAGGCCAACTTCTCCATCGGTCCCATGATGCAAGAC
CTTGACAGGGACCTACAGATGCTACGGTTCTGTTACTCACTCCCCCTATCAGTTGTCAGTCCCAGTGACCCCTCTG
GACATCGTCATCACAGGICTATATGAGAAAACCTTCTCTCAGCCCAGCCGGGCCCCACGGTTCTGGCAGGAGAG
AGCGTGACCTTGTCTGCAGCTCCCGGAGCTCCTATGACATGTACCATCTATCCAGGGAGGGGGAGGCCCATGAA
CGTAGGTTCTCTGCAGGGCCCCAAGGTCAACGGAACATTCCAGGCCGACTTTCCTCTGGGCCCTGCCACCCACGGA
GGAACCTACAGATGCTTCGGCTCTTTCCGTGACTCTCCATACGAGTGGTCAAACCTCGAGTGACCCACTGCTTGTT
TCTGTACAGGAAACCCCTTCAAATAGTTGGCCTTCACCCACTGAACCAAGCTCCGAAACCGGTAACCCCATACAC
CTGCATGTTCTGATTGGGACCTCAGTGGTCATCATCCTCTTCATCCTCCTCCTCTTCTTCTCCTTCATCGCTGG
TGCTGCAACAAAAAATGCTGTTGTAATGGACCAAGAGCCTGCAGGGAACAGAACAGTGAACAGGGAGGACTCT
GATGAACAAGACCCCTCAGGAGGTGACATATGCACAGTTGAATCACTGCGTTTTACACAGAGAAAAATCACTCAC
CCTTCTCAGAGGCCCAAGACACCCCCAACAGATATCATCGTGACACGGAACCTCCAAATGCTGAGCCCTGATCC
AAAGTTGTTCTCCTGCCCATGAGCACCACAGTCAGGCCTTGAGGGGATCTTCTAGGGAGACAACAGCCCTGTCTCA
AAACTGGGTTGCCAGCTCCAATGTACCAGCAGCTGGAATCTGAAGGCGTGAGTCTGCATCTTAGGGCATCGCTCT
TCCTCACACCACAAATCTGAACGTGCCTCTCTCTTGCTTACAAATGTCTAAGGTCCCCACTGCCTGCTGGAGAGA
AAACACACTCCTTTGCTTAGCCCACAATTCTCCATTTCACTTGACCCCTGCCACCTCTCCAACCTAACTGGCTT
ACTTCCTAGTCTACTTGAGGCTGCAATCACACTGAGGAACCTACAATTCCAAACATACAAGAGGCTCCCTCTTAA
CACGGCACTTAGACACGTGCTGTTCCACCTTCCCTCATGCTGTTCCACCTCCCCCTCAGACTAGCTTTCAGCCTTC
TGTCAGCAGTAAACTTATATATTTTTTAAATAATTTCAATGTAGTTTTCCCTCCTTCAAATAAACATGCTCTGC
CCTCAAAAAAA

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FIGURE 2128

MSLMVVSMACVGFFLLQGAWPHEGVHRKPSLRAHPGPLVKSEETVILQCWSDVRFEHFLLHREGKFKDTLRLIGE
HHDGVSKANFSIGPMMQDLAGTYRCYGSVTHSPYQLSAPSDPLDIVITGLYEKPSLSAQPGPTVLAGESVTLSCS
SRSSYDMYHLSREGEAHERRFSAGPKVNGTFQADFPLGPATHGGTYRCFGSFRDSPYEWSNSSDPLLVSVTGNPS
NSWPSPTEPSSETGNPIHLHVLIGTSVVIILFILLFFLLHRWCCNKKNAVMDQEPAGNRTVNREDSDEQDPQE
VTYAQLNHCVFTQRKITHPSQRPKTPPTDIIVYTELPNAEP

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FIGURE 2129

GGGACCGCTATAAGGCCAGTCGGACTGCGACATAGCCCATCCCCTCGACCGCTCGCGTCGCATTGGCCGCCTCC
CTACCGCTCCAAGCCCAGCCCTCAGCCATGGCATGCCCCCTGGATCAGGCCATTGGCCTCCTCGTGGCCATCTTC
CACAAGTACTCCGGCAGGGAGGGTGACAAGCACACCCTGAGCAAGAAGGAGCTGAAGGAGCTGATCCAGAAGGAG
CTCACCATTGGCTCGAAGCTGCAGGATGCTGAAATTGCAAGGCTGATGGAAGACTTGGACCGGAACAAGGACCAG
GAGGTGAACTTCCAGGAGTATGTCACCTTCCTGGGGGCCTTGGCTTTGATCTACAATGAAGCCCTCAAGGGCTGA

AAATAAATAGGGAAGATGGAGACACCTCTGGGGTCCTCTCTGAGTCAAATCCAGTGGTGGGTAATTGTACAATA
AATTTTTTTTGGTCAAATTT

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FIGURE 2130

MACPLDQAIGLLVAIFHKYSGREGDKHTLSKKELKELIQKELTIGSKLQDAETARLMEDLDRNKDQEVNFQEYVT
FLGALALIYNEALKG

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FIGURE 2131A

GAGCAGATTCTACTGTTCTTAAAGGACAGTAATGCCTTTTGTAGTCTGGTCTGAAGAACATAACAGGTCTGTGAT
CAGAAGTAGGTTGCATCTCTCTCAACTTTAATTTCTTAGCTATACCTGTAGGGATGACTTAAGCCTAGGGGAGC
TCCTATATTTGGGAAGCTTGTGCACAGGGAAGCCTTAAATGATGGTGCCTGCAGATTGGATCTAGTAGAAATTAG
GTCCTTGGGCATGGATGCTTGGGGAACCTCTCAGTGACCTCAGGTGAACCTGTTGCTCGTAGAGCCAAGAGGCGA
AGTTAATTCAGGCCTTCTTTTGACCACTGCCCCCTCTTCCTAGGCCTTGGCCCCCTCCACCAGAGGAAGGTGCTG
CCACGTGTCTGCTCCTTCTGAACCTCCAGGTTTCTGCTACGTTGCCCCATGGAGGACACACCCCCCTCACTCAGC
TGCTCCGACTGTGCAGCGCCACTTTCCAGCCTCCAGAGCTCTCTCGGCACCGAGAAGTCTCCATCCATCTCCC
AACCAGGACAGTGAGGAGGCTGACAGCATCCCTCGGCCCTACCGTTGTGACAGTGTGGGCGGGGTACCGTCAAC
CCCGGGAGCCTGGTTAACCATCGTCCGACCCACGAGACTGGCCTTTTCCCCTGTACCACCTGTGGCAAGGACTTC
TCCAATCCCATGGCTCTCAAGAGCCATATGAGGACACATGCTCCTGAGGGCCGCCGAGGCACAGGCCCCACGC
CCCAAGGAAGCCACTCCACACCTCCAGGGTGAGACGGTGTCCACTGACTCCTGGGGCCAAAGGCTTGGCTCTAGT
GAAGGCTGGGAAAACAGACAAAACATACAGAAGAGACACCTGACTGTGAATCTGTACCTGACCCAGGGCAGCT
TCGGGTACGTGGGAAGATCTGCCACCCAGACAAAGAGAAGGCTTGGCAAGCCACCCAGGTCTGAGGATGGTGCA
GACGGCTGGGGACCTCCACTAATCTGCCAGAGCCCTCTCTCCCCATCCAGCCAGCAGCCTTCTTAGCAAC
TTGGAACAGTATCTGGCTGAATCAGTAGTGAACCTCACAGGGGGCCAGGAGCCACCCAGTCCCCTCTGCTGAG
GAGGAGCGCGGTACAAATGTAGTCAGTGTGGCAAGACCTACAAGCAGCCGGGAGCCTACCAACCACCGCCAG
AGCCACACGCTGGGCATCTACCCCTGTGCCATCTGTTTCAAGGAGTTCTTAACCTCATGGCTCTGAAGAACCAC
TCTCGACTGCATGCCAGTATCGGCCTTACCCTGTCCCCACTGCCCCGTGTCTTCCGGCTCCCCCGGAGCTG
CTGGAACACCAGCAGTCCCATGAGGGTGAAAGGCAGGAGCCACGCTGGGAGGAGAAAGGATGCCACCACCAAT
GGGCACACAGATGAGAGCAGCCAGGACAGCTCCCCAGTGCACAGATGCTGAATGGCTCTGCGGAGCTCAGCACC
TCTGGGAGCTGGAGGACAGTGGCCTGGAGGAATACCGGCCTTTCCGCTGTGGGGACTGTGGCCGTACTTACCGC
CATGCTGGGAGCCTCATCAACCATCGAAAGAGCCACCAGACAGGTGTCTACCCCTGCTCACTCTGTTCTAAGCAG
CTGTTCAATGCGGCTGCCCTCAAAAACCATGTGCGGGCTCATCACAGGCCAGGCAAGGAGTTGGGGAATGGG
CAGCCATCAGTCCCACCAGCTCCCCTGCTGCTGGCTGAGACCACCCACAAGAGGAAGAGGACCCACCACCACC
CTGGACCATCGGCCCTATAAGTGAGTGAGTGTGGTCTGCTTACCGCCACCGGGGAGCCTGGTGAACCATCGC
CACAGCCATCGGACTGGAGAGTACCAGTGTCACTCTGTCCCCGCAAGTACCCCAATCTCATGGCCCTGCGCAAC
CACGTGCGGGTACATTGCAAGGCTGCTCGCGGAAGTGACAGACATCGGGGCTGAGGGTGCCCCAGCCACCTCAAG
GTAGAATCCCGCTGACCCAGTGGAGGACAGGACAGCCCGCACACAGATCAGGACCATGTGTGCAACATGAA
GAAGAGGCCACGGACATACCCACAGCAGACAGAAGACAGCAGCAGATATCTGTAGCATCTGTGGGCTGCTCTTT
GAAGACGCTGAGAGCCTTGAACGTCTATGGCTGACTCATGGGGCAGGGGAAAAGGAAAATAGCAGAACAGAGACC
ACAATGTCACCTCTTAGGGCCTTTGCTGCGGAGACTGTGGAAAGAGCTATCGCCACTCAGGCAGCCTTATCAAC
CACAGGCAGACCCACCAGACAGGAGACTTCAGTTGTGGGGCTGTGCCAAGCACTTCCACACCATGGCTGCCATG
AAGAACCCTTGGCGCCGGCACAGTGGCGGGCGGAGCAGGCGGCATCGGAAGCGGGCTGGCGGTGCCAGCGGTGGG
AGAGAAGCCAACTCCTGGCAGCGGAGAGCTGGACCCGGGAGCTAGAAGACAATGAAGGCCTGGAGTCTCCCCAA
GACCTTTCAGGGGAAAGTCTCATGGGGCTGAAGGCAACCTGGAAAGTGATGGGGACTGTTTGCAGGCTGAATCT
GAAGGGGACAAATGTGGGCTTGAAGGGATGAGACCCATTTCCAGGGTGATAAGAGAGCGGAGGCACTGGGGAA
GGACTGGAAAGGAAGGATGCCAGTTTACTTGACAACITGGACATCCCAGGTGAGGAAGGTGGTGGCACTCACTTC
TGCGATAGCCTCACTGGGGTGGATGAAGACCAGAAGCCAGCCACTGGCCAACCCAACTCCTCTTCCCACTCTGCC
AATGCTGTCACTGGCTGGCAGGCTGGGGCCGCTCACACATGCTCTGACTGTGGGCATTCTTCCCCCATGCCACT
GGCCTGTGAGCCACAGGCCCTGCCACCCACCAGGCATCTATCAGTGCTCCCTCTGCCCCAAGGAGTTTGACTCT
CTGCCTGCCCTCCGAGCCACTTCCAGAACCATAGGCCTGGGGAGGCGACCTCAGCACAGCCTTCTCTGTCTGC
CTCTGTGGCATGATCTTCCCTGGGCGGGCTGGCTACAGGCTTCACCGGCGCCAGGCCCACAGCTCCTCTGGCATG
ACTGAGGGCTCAGAGGAGGAGGGGAAGAGGAAGGAGTGGCAGAGGCAGCCCTGCACGCAGTCCACCCTGCAG
CTCTCGGAAGCAGAGCTGCTGAATCAGCTGCAGCGGGAGGTGGAAGCGCTGGACAGTGCAGGGTATGGGCACATC
TGTGGCTGCTGTGGTCAGACCTACGATGACCTGGGGAGCCTGGAGCGTACCACCAAGTCAGAGTTCTGGGACT
ACTGCAGACAAGGCTCCCAGCCCTTGGGAGTGGCAGGTGATGCCATGGAGATGGTCTGGACAGTGTCTTGGAG
GACATAGTGAATCTGTCTCTGGAGAGGGTGGAGATGCCAAGTCTCAAGAGGGAGCAGGCACCCCTTGGGAGAC
AGCCTCTGCATCCAGGGTGGGGAAGTTTGTGGAGGCTCAGCCCCGCCCTTCCGCTGCAACCAGTGTGGCAAG

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FIGURE 2131B

ACCTATCGCCATGGGGGAGCCTGGTGAACCACCGCAAGATCCACCAGACTGGAGACTTTCTCTGCCCTGTCTGC
TCCCGCTGCTACCCCAACCTGGCTGCCTACCGTAATCATCTGCGGAACCACCTCGCTGCAAAGGCTCTGAGCCC
CAGGTTGGGCCCATCCAGAGGCAGCAGGTAGCAGTGAGCTGCAGGTTGGGCCCATCCAGAAAGGAGGCAGCAAC
AAGCCCCAGCACATGGCAGAGGAGGGGCGGGGCAAGCAGAAGTCGAGAAGCTCCAGGAAGAACTTAAAGTGGAG
CCCCCTGGAGGAAGTGGCCAGGGTGAAGAAGAGGTGTGGGAGGAGACCACTGTGAAGGGGGAGGAGATAGAGCCC
AGGCTGGAGACTGCCGAGAAGGGCTGCCAGACTGAAGCCAGCTCTGAGCGGCCCTTCAGCTGCGAGGTGTGTGGC
CGATCCTACAAGCACGCCGCGCAGCCTCATCAACCACCGGCAGAGCCACCAGACCGGCCACTTTGGCTGTGAGGCC
TGCTCCAAGGGCTTCTCAAACCTCATGTCCCTCAAGAACCACCGGCGCATCCATGCAGATCCCCGACGTTTCCGC
TGCAGCGAGTGTGGGAAGGCCTTCCGCCTGCGGAAACAGCTGGCCAGCCACCAGCGGGTCCACATGGAACGGCGT
GGGGGTGGGGGCACCCGAAAGGCGACTCGGGAAGATCGGCCCTTCCGCTGTGGGCAGTGCGGGCGGACCTATCGC
CACGCCGCGCAGCCTCCTGAACCACCGGCGCAGCCACGAGACGGGCCAGTACAGCTGCCCCACCTGCCCCAAGACC
TACTCCAACCGCATGGCCCTGAAGGACCACCAGAGGCTGCACTCAGAGAATCGGCGGCGACGGGTGGACGGTCC
AGGCGCACAGCTGTGCGTTGCGCCCTCTGTGGCCGAGCTTCCCTGGCCGGGGATCTTTGGAGCGGCACCTGCGG
GAGCATGAGGAGACAGAAAGGGAGCCAGCCAAATGGCCAGGGAGGCTGGATGGCACAGCGGCCAGTGAGGCGAAC
CTGACTGCGCAGCCAGGGACTAGAGACCCAATTGGGTGGTGTGAGCCAGTACCCCACTTGGAGGATGGAGTCCCA
AGGCCAGGGGAGCGCAGTACAGACCCCATCAGGCGAGCAAGCTCAGAAGCCCCAGAGCCACTGTCTGGGGTGCA
GGGAAGGCAGGTGGGTGGCCGTTAGGTGGGGGACTGGGGAATCATAGTGGAGGCTGGGTTCTCAGTTCCTAACT
AGGTGAGAGGAGCCAGAGGACAGTGTCCACAGGAGTCTTGCCACGCTGGTACTGCCAGCTCAATGGACCTACT
CTGAGTCACATGGATAGCTGGGACAACAGAGACAACAGCTCTCAGCTGCAGCCAGGGAGCCACTCCTCTGACGC
CAGTGTGGCAAGACTTACTGCCAGTCAGGCAGCCTCTTGAACCACAACCAACAAGACAGACCGACACTATTGC
CTGCTCTGCTCCAAGGAGTTCTTAAATCCTGTGGCCACAAGAGCCACAGCCACAACCACATAGACGCCAGACC
TTTGCTGTCTGACTGTGGCAAAGCCTTTGAGTCCCACCAGGAACTGGCCAGCCACCTGCAGGCTCATGCCCGG
GGCCACAGCCAGGTGCCAGCCAGATGGAGGAGGCCAGAGATCCCAAAGCCGGGACTGGGGAGGACCAGGTGGTT
CTCCCTGGTCAAGGGAAAGCCCAGGAGGCCCATCAGAAACCCCCAGAGGCCAGGAGAGAGTGTGGAGAGAGCC
AGGGGAGGACAAGCGGTGACGTCCATGGCGGTGAGGACAAGGAGCGGCCCTTCCGCTGCACCCAGTGGGGCGC
TCTACCGCCATGCTGGCAGCCTGCTGAACCACCAGAAGGCCACACCACAGGGTTGTACCCGTGCTCCCTCTGT
CCCCAACTTCTCCCTAACCTGCTGTCTCTTAAGAACCACAGCAGGACCCACACGGACCCCAAGCGCCACTGTGC
AGCATCTGTGGCAAGGCCTTTCGGACAGCTGCCCGGTGGAGGGCCACGGCGGGTCCATGCACCCCGGGAGGGG
CCTTTCACCTGCCCCCATTGTCCCCGCACTTCCGCCGCGCAATCAGCTTCGTGCAGCACCAGCAGCAGCACCAG
GAGGAGTGGACGGTGGCCGGCTCCGGTAGGGGGCATGAAGGTCCCAGGAGGAGGTGGGCACACAGTGGAGGGGG
AAGTCCAGCCCCAAAGTCGGTGGGGGAGCAAGGAGTGAGAGGAGAGAGCCCCGGGGATTCTAAGAGGTGGGTGGG
GGCTTGGCTATGGGGTGAGAGAAGTAGCTTGAAGATGTGCTGAGCTGAGCACC CGCAAGTCAGGTATAACAAATA
GCAGGGTGGGTGGGCAGCACGTGGGGGCGTGGTCAGGCCAGGCTGTACCTGGGCTCCTCCATTACACTGTAG
CCAGAATGGAATGGTCTTCTGTTCAGGGGAAGGTCACTGGGTACCCCTGGCTGCTGTGTCTGGAACCCCTCCT
GAGTCAGCCAGTAAAGTAATGACTTCCAGAGAAAAAGAGGAAGCCATTGGTTTGGTCTAGGTTCATTCTTTCT
GGAGCAGGCCGGGTGCCAGGGAACAAGGATGGGGCATGGCTCCACGGCTTCCCTGCTGACTTGGCCACGGAAA
CTGGTTCAGTGGTTGGCACCCCTACTCCCTGTCCCTCTTTCCTGCGCCTTGTCTCTGCTGCTCCTCTCCTTGGA
ACTAGACCTCTGGTCTTCCCTGTGAGTGTGCTCCCATCTCTTCTTAACCTTTATTACGCCCTTTTCCCTCT
GCTGCCAACGGCCTTTTTAGGATCCAACCAAACCACCTTTCTACCTGCGCACCCCTGCCACCCCTGACACCTT
TAACTGGAGGACTGAGTCACAGATAATTGTTTCCCTTGAAGTCCAGGCCAGCTGCAGCAACAACAGTCATTAGCC
CGTGTACATCCCTGATCAGAGGGCATCTCCGTGGGGAATCGCTCCACCCAGCACTGTGGAAGCCGCGGCTGC
CAGGGAGTGGGGCGGCCGTTCCCTCAGCAGGACCTGGGCTGGCTCTCCACCTCCCTAGTAGAGGCGGACCCA
TTCCATCTAGTGGCCACCAGGGTGGGTGGCCCTGAGATGGTGGGCCCTTGACAGGCCTTGTGAGAGCAGAGGGC
AGGTGGGAGTCACCTGAAAGCTGAAGGAATGGCTTTAAGGATAGAAGATTCTCATGACCTCAAGGGATATGAGG
GAGGAGCCAGTTTGCCAGGGCTGGGAAAATAATTAGGAGGCCATAGAATCCCTGTTCTCATCTGGGCTCCGGGGC
CAGGGGCAGGGGAATGGCCTGCAGGGCTGGGAGGGGTACACGCTGTGCGGGGTCTGCCCCCTCAGTTGGTGACCT
CCTCTCTCTCTCCCCCAGGAGCCCCAGTGGCACCAGTGACGGGCAGAGGGGACTTGCATTGCCCCCTCCACCC
ACCCCCACGACCCCACTCCTGGATCCTTACCCCACTGGCCTGCAGACCTCAGCTTCTCCCTCTGAACCTCAAGT

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FIGURE 2131C

CTCCAAAGATCAGAATCTGGGGGAGGGAGCGCGTGCAGGGAGGGGCTTGATCTCCACATTTTCTCAGGAGTAGTT
CGGGCATCCCCATACTTCTCCTCTCCCCCTTGTAAGAGGACCCAGATCTGGCTTCTTTCCCAAGGAGGGGGTGG
GGTGTTCTCGCGTCCCTGTCCTTGAAGGACCTCCTTCCCCCAGCCTCATCACCGTGCTCTTCTCAGCGCCACCC
TCAGCAGCCAGATTGCAACACCAGGGAGAGGTGGATGCAGAGCCCCACCGGTGGGAAAGTTGCCTGTGGAAGGGA
GCCTTTTGCTACAATTTGTAACCTATTTTCTAAAGICTATTTTGTAACAATTATTTAAGTTTAAAAAAGGAAA
ACTGCTGCCCCCAAAAAAGAAATTTTC

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FIGURE 2132

MEDTPPSLSCSDCQRHFPSPLELSRHRELLHPSPNQDSEEADSIIPRYRCQQCGRGYRHPGSLVNHRRTHETGLF
PCTTCGKDFSNPMALKSHMRTHAPEGRRRRHRPPRPKEATPHLQGETVSTD SWGQRLGSSEGWENQTKHTEETPDC
ESVPDPRAASGTWEDLPTRQREGLASHPGPEDGADGWGPSTNSARAPPLPIPASSLLSNLEQYLAESVVNFTGGQ
EPTQSPPAEEERRRYKCSQCCKTYKHAGSLTNHRQSHTLGIYPCAI CFKEFSNLMALKNHSRLHAQYRPHYCHPCP
RVFRLPRELLEHQQSHEGERQEPRWEEKGMPTTNGHTDESSQDQLPSAQMNGSAELSTSGELED SGLEEYRPF
CGDCGRTRYRHAGSLINHRKSHQTVGYPCSLCSKQLFNAAALKNHVRAHHRPRQGVGENGQPSVPPAPLLLAETH
KEEEDPTTTLDHRPYKCSECGRAYRHRGSLVNHRRSHRTGEYQCSLCPRKYPNLMALRNHVRVHCKAARRSADIG
AEGAPSHLKVLEPPDPVEAEAAPHTDQDHVCKHEEEATDITPAADKTAAHICSICGLLFEDAESLERHGLTHGAG
EKENSRTETTMSPPRAFACRDCGKSYRHSGSLINHRQTHQTGDFSCGACAKHFHTMAAMKNHLRRHSRRRSRRHR
KRAGGASGGREAKLLAAESWTRELEDNEGLESPODPSPGSEPHGAEGNLES DGDCLQAESEGDCKGLERDETHFQG
DKESGGTGEGLERKDASLLDNLDIPGEEGGGTHFCDSL TGVDEDQKPATGQPNSSSHSANAVTGWQAGAAHTCSD
CGHSFPHATGLLSHRPCHPPGIYQCSLCPKFDSL PALRSHFQNHPRGEATSAQPFLLCCLCGMIFPGRAGYRLHR
RQAHSSSGMTEGSEEEEGEEGVAAAPARSPPQLSEAELLNQLQREVEALDSAGYGHICGCCGQTYDDLGSLER
HHQSQSSGTTADKAPSPLGVAGDAMEMVVDVLEDIVNSVSGEGGDAKSQEGAGTPLGDSL CIQGGESLLEAQPR
PFRCNQCGKTYRHGGS L V N H R K I H Q T G D F L C P V C S R C Y P N L A A Y R N H L R N H P R C K G S E P Q V G P I P E A A G S S E L Q V
G P I P E G G S N K P Q H M A E E G P G Q A E V E K L Q E E L K V E P L E E V A R V K E E V W E E T T V K G E E I E P R L E T A E K G C Q T E A S S E
R P F S C E V C G R S Y K H A G S L I N H R Q S H Q T G H F G C Q A C S K G F S N L M S L K N H R R I H A D P R R F R C S E C G K A F R L R K Q L A S
H Q R V H M E R R G G G T R K A T R E D R P F R C G Q C G R T Y R H A G S L L N H R R S H E T G Q Y S C P T C P K T Y S N R M A L K D H Q R L H S E
N R R R R A G R S R R T A V R C A L C G R S F P G R G S L E R H L R E H E E T E R E P A N G Q G G L D G T A A S E A N L T G S Q G L E T Q L G G A E P
V P H L E D G V P R P G E R S Q S P I R A A S S E A P E P L S W G A G A G G W P V G G G L G N H S G G W P Q F L T R S E E P E D S V H R S P C H A
G D C Q L N G P T L S H M D S W D N R D N S S Q L Q P G S H S S C S Q C G K T Y C Q S G S L L N H N T N K T D R H Y C L L C S K E F L N P V A T K S H
S H N H I D A Q T F A C P D C G K A F E S H Q E L A S H L Q A H A R G H S Q V P A Q M E E A R D P K A G T G E D Q V V L P G Q G K A Q E A P S E T P R
G P G E S V E R A R G G Q A V T S M A A E D K E R P F R C T Q C G R S Y R H A G S L L N H Q K A H T T G L Y P C S L C P K L L P N L L S L K N H S R T
H T D P K R H C C S I C G K A F R T A A R L E G H G R V H A P R E G P F T C P H C P R H F R R R I S F V Q H Q Q H Q E E W T V A G S G R G H E G S Q
E E V G T Q W R G K S S P K V G G G A R S E R R E P R G F

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FIGURE 2133A

[illegible]

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FIGURE 2133B

ACTCGGAGCTGCTCTGCTACTTCATCATCATCCTCAACCACATGGTCACGGCCTCCGCCGGCTCCCTGGTGCTGC
CCGTGCTCGTCTTCTGTGGGCCATGCTGTGATCCCGAGGCCAGCAAGCGCTTCTGGATGACGGCCATCGTCT
TCACCGAGATCGCGGTGGTTCGTCAAGTACCTGTTCCAGTTTGGGTTCTTCCCCTGGAACAGCCACGTGGTGCTGC
GGCGCTACGAGAACAAGCCCTACTTCCCGCCCCGATCCTGGGCCTGGAGAAGACTGACGGCTACATCAAGTACG
ACCTGGTGACGCTCATGGCCCTTTTCTTCCACCGCTCCAGCTGCTGTGCTATGGCCTCTGGGACCATGAGGAGG
ACTCACCATCCAAGGAGCATGACAAGAGCGGCGAGGAGGAGCAGGGAGCCGAGGAGGGGCCAGGGGTGCCTGCGG
CCACCACCGAAGACCACATTCAGGTGGAAGCGAGGGTTCGACCCACGGACGGGACCCAGAACCCCAAGTGGAGC
TCAGGCCCCGTGATACGAGGCGCATCAGTCTACGTTTTAGAGAAGGAAGAAGGAGGGCCCCAGCACGGAAGGAG
CGGCAGCCATCGAAGCTGAGGACAGGGAGGAAGAAGAGGGGGAGGAAGAGAAAGAGGCCCCACGGGGAGAGAGA
AGAGGCCAAGCCGCTCTGGAGGAAGAGTAAGGGCGGGCGGGCGGGCTGCAGGGCTTCTGCCTGTCCCTGGCCC
AGGGCACATATCGGCCGCTACGGCGCTTCTTCCACGACATCCTGCACACCAAGTACCGCGCAGCCACCGACGTCT
ATGCCCTCATGTTCTGCTGATGTTGTGCGACTTCATCATCATCATTTTTGGCTTCTGGGCCCTTGGGAAGCACT
CGGCGGCCACAGACATCACGTCTCCCTATCAGACGACCAGGTACCCGAGGCTTTCCTGGTTCATGCTGCTGATCC
AGTTCAGTACCATGGTGGTTGACCGCGCCCTCTACCTGCGCAAGACCGTGCTGGGCAAGCTGGCCTTCCAGGTGG
CGCTGGTGTGGCCATCCACCTATGGATGTTCTTCATCCTGCCCGCCGTCACCTGAGAGGATGTTCAACCAGAATG
TGGTGGCCAGCTCTGGTACTTCGTGAAGTGCATCTACTTCGCCCTGTCCGCCTACCAGATCCGTGCGGCTACC
CCACCCGATCCTCGGCACTTCTCACCAGAAGTACAATCATCTCAACCTTCTCCTCTTCCAGGGGTTCCGGC
TGGTGCCGTTCTGGTGGAGCTGCGGGCAGTGATGGACTGGGTGTGGACGGACACCACGCTGTCCCTGTCCAGCT
GGATGTGTGTGGAGGACATCTATGCCAATCTTTCATCATCAAATGCAGCCGAGAGACAGAGAAGAAATACCCGC
AGCCCAAAGGGCAGAAGAAGAAGATCGTCAAGTACGGCATGGGTGGCCTCATCATCCTCTTCTCATCGCCA
TCATCTGTTTCCCGCTGCTCTTCATGTGCTGGTGCGCTCCGTGGTTGGGGTTGTCAACCAGCCCATCGATGTCA
CCGTACCCCTCAAGCTGGGCGGCTATGAGCCGCTGTTACCATGAGCGCCAGCAGCCGTCCATCATCCCTTCA
CGGCCCAGGCCTATGAGGAGCTGTCCCGGCAGTTTGACCCCCAGCCGCTGGCCATGCAGTTTCATCAGCCAGTACA
GCCCTGAGGACATCGTCACGGCGCAGATTGAGGGCAGCTCCGGGGCGCTGTGGCGCATCAGTCCCCCAGCCGTG
CCCAGATGAAGCGGGAGCTCTACAACGGCACGGCCGACATCACCTGCGCTTCACCTGGAATTCAGAGGGACC
TGGCGAAGGGAGGCACTGTGGAGTATGCCAACGAGAAGCACATGCTGGCCCTGGCCCCAACAGCACTGCACGGC
GGCAGCTGGCCAGCCTGCTCGAGGGCACCTCGGACCAGTCTGTGGTCATCCCCAATCTCTTCCCCAAGTACATCC
GTGCCCCAACGGGCCCCGAAGCCAACCTGTGAAGCAGCTGCAGCCCAATGAGGAGGCCGACTACCTCGGCGTGC
GTATCCAGCTGCGGAGGGAGCAGGGTGCGGGGGCCACCGGCTTCTCGAATGGTGGGTTCATCGAGCTGCAGGAGT
GCCGGACCGACTGCAACCTGCTGCCCATGGTCATTTTCAGTGACAAGGTGAGCCACCGAGCCTCGGCTTCTGG
CTGGCTACGGCATCATGGGGCTGTACGTGTCCATCGTGTGGTTCATCGGCAAGTTCGTGCGCGGATTCTTCAGCG
AGATCTCGCACTCCATTATGTTTCGAGGAGCTGCCGTGCGTGGACCGCATCCTCAAGCTCTGCCAGGACATCTTCC
TGGTGGGGAGACTCGGGAGCTGGAGCTGGAGGAGGAGTTGTACGCCAAGCTCATCTTCTCTACCGCTCACCGG
AGACCATGATCAAGTGGACTCGTGAGAAGGAGTAGGAGCTGCTGTGGCGCCCGAGAGGGAAGGAGCCGGCCTGC
TGGGCAGCGTGGCCACAAGGGGCGGCACTCCTCAGGCCGGGGAGCCACTGCCCGTCCAAGGCCGCCAGCTGTG
ATGCATCCTCCCGCCTGCCTGAGCCCTGATGCTGTGTCAGAGAAGGACACTGCGTCCCCACGGCCTGCGTGGC
GCTGCCGTCCCCCACGTGTACTGTAGAGTTTTTTTTTAATTAAAAATGTTTTATTTATACAAATGG

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FIGURE 2134

MDLRPELPTTLGPVSLRQLGLEHTRYPCLDLGAMLLYTLTFWLLLRQFVKEKLLKWAESPAALTEVTVADTEPTR
TQTLLQSLGELVKGVIYAKYWIYVCAGMFIIVVSFAGRLVVYKIVYMFLLCLTLFQVYYSIWRKLLKAFWWLVVA
YTMLVLIAYVTFQFQDFPAYWRNLTGFTDEQLGDLGLEQFSVSELFSSILVPGFFLLACILQLHYFHRPFMQLTD
MEHVSPLPGTRLPRWAHRQDAVSGTPLLREEQHEHQQQQEEEEEDSRDEGLGVATPHQATQVPEGAAGWGLVAE
RLELEAAGFSDVLSRVQVFLRRLLELHVFKLVALYTVWVALKEVSVMNLLLVVLWAFALPYPRFRPMASCLSTVW
TCVIIIVCKMLYQLKVVPQYSSNCTEPFPNSTNLLPTEISQSLLYRGPVDPANWFGVRKGFPNLGYIQNHLQVL
LLLVFEAIVYRRQEHYRRQHQLAPLPAQAVFASGTROQLDQDLLGCLKYFINFFFYKFGLEICFLMAVNVIGORM
NFLVTLHGCVLVAILTTRRRQAIARLWPNYCLFLALFLLYQYLLCLGMPPALCIDYPWRWSRAVPMNSALIKWLY
LPDFFRAPNSTNLISDFLLLLCASQQWQVFSARTTEWQRMAGVNTDRLEPLRGEPNPVNFHICRSYLDMLKVA
VFRYLFWLVLVVVFTGATRISIFGLGYLLACFYLLFGTALLQRDTRARLVLDCLILYNVTVIIISKNMLSILA
CVFVEQMQTGFCWVIQLFSLVCTVKGYDPKEMMDRDQDCLLPVEEAGIWDVSVCFLLQLQRRVFLSHYYLHVR
ADLQATALLASRGFALYNAANLKSIDFHRRIEEKSALQKRQMERIRAKQEKHRQGRVDRSRPQDTLGPDPGLE
PGPDSPGGSSPPRRQWWRPWLHDATVIHSGDYFLFESDSEEEEEAVPEDPRPSAQSAFQLAYQAWVTNAQAVLRR
RQEQEQEQARQEQAGQLFTGGGSPSQEVEPAEGPEEAAAGRSHVVQVRLSTAQFLWMLGQALVDELTRWLQEFTRHH
GTMSDVLRAERYLLTQELLQGGEVHRGVLDQLYTSQAEATLPGPTEAPNAPSTVSSGLGAEPLSSMTDDMGSP
STGYHTRSGSEEAVTDPGEREAGASLYQGLMRTASELLDRRLRIPELEEAELFAEGQGRALRLRAVYQCVAH
SELLCYFIIILNHMVTASAGSLVLPVFLWAMLSIPRPSKRFWMTAIVFTEIAVVVKYLFQFGFFPWNSHVLR
RYENKPYFPRIILGLEKTDGYIKYDLVQLMALFFHRSQLLCYGLWDHEEDSPSKEHDKSGEEEGQAEEGPGVPAA
TTEDHIQVEARVGPTDGTPEPQVELRPRDTRRISLFRRRKKEGPARKGAAAIEAEDREEEGEEKEAPTGREK
RPSRSGGRVRAAGRRLQGFCLSLAQGTYPRLRRFFHDILHTKYRAATDVYALMFLADVDFIIIFGFWAFGKHS
AATDITSSLDDQVPEAFVMLLIQFSTMVVDRALYLKRTVLGKLAFQVALVLAHLWMFFILPAVTERMFNQNV
VAQLWYFVKCIYFALSAYQIRCGYPTRILGNFLTCKYNHLNLFQGFRLVPFLVELRAVMDWVWTDITLSLSSW
MCVEDIYANIFIICKSRETEKKYPQPKGQKKKIVKYGMGLIILFLIAIWFPLFMSLVRSVVGVVNQPIDVT
VTLKLGGYEPLFTMSAQQPSIIPFTAQAYEELSROFDPQLAMQFISQYSPEDIVTAQIEGSSGALWRISPPSRA
QMKRELYNGTADITLFTWNFQDLAKGGTVEYANEKHMALAPNSTARRQLASLEGTSDQSVVIPNLPKPIR
APNGPEANPVKQLQPNEEADYLGVRIOQLRREQGAGATGFLEWWVIELQECRTDCNLLPMVIFSDKVSPPSLGFLA
GYGIMGLYVSIVLVIGKFVRGFFSEISHSIMFEELPCVDRILKLCQDIFL

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FIGURE 2135A

GGCGAGCTAAGCCGGAGGATGTGCAGCTGCGGCGGCGGCGCCGGCTACGAAGAGGACGGGGACAGGCGCCGTGCG
AACCGAGCCCAGCCAGCCGGAGGACGCGGGCAGGGCGGGACGGGAGCCCGGACTCGTCTGCCGCGCCCGTCTGCG
CCGTCGTGCCGCCCCCGCTCCCCGCGCGAGCGGGAGGAGCCCGCCACCTCGCGCCCGAGCCCGCGTAGC
GCGCGCCGGGCATGGTCCCCTCTTAAAGGCGCAGGCCGCGGCGGGCGGGCGGGCGTGCAGAACAAAGCGCCGGC
GCGGGGCGCTGCGGGCGGCTCGGGGGCCGATGGGCGCGGCGGGCCCGCGGCGGCGGCGCTGCCCGGGCCGG
GCCTCGCGGCGCTAGGGCGGGCTGGCTCCGCGGGCGGGGCGAGCGGGCTGAGGGCGCGCGGGGCGCTGCCGCGG
GGCGGGCGGCGGCGGGCGGGCCGCGGGCGGAGCGGCGGGGATGGCGCGCGGGCGGCGGCGCGCGCTGGCTCA
GCGTCTGCTCGGGCTCGTCTGGGCTTCGTGCTGGCTCGCGGCTCGTCTGCCCGGGCTTCCGAGCTGAAGC
GAGCGGGCCCCACGCGCCGCGCCAGCCCCGAGGGCTGCCGCTCCGGGCGAGCGGCGGCTTCCAGCGCGCGGGG
CGCGCGGCGATGCGCGCGGGGCGCAGCTCTGGCCGCCCGGCTCGGACCCAGATGGCGGCGCGCGCAGAGAACT
TTCTCTTCGTGGGAGTCATGACCGCCAGAAATACCTGCAGACTCGGGCCGTGGCCGCTACAGAACATGGTCCA
AGACAATTCTGGGAAAGTTAGTTCTTCTCAAGTGAGGTTCTGACACATCTGTACCAATTCCAGTAGTGCCAC
TACGGGGTGTGGAGACTCCTACCGCCCCAGAAAGTCTTTCATGATGCTCAAGTACATGCACGACCACTACT
TGGACAAGTATGAATGGTTTATGAGAGCAGATGATGACGTGTACATCAAAGGAGACCGTCTGGAGAACTTCTGA
GGAGTTTGAACAGCAGCGAGCCCTCTTCTTGGGAGACAGGCGTGGGACACGGAAGAAATGGGAAACTGG
CCCTGGAGCCTGGTGAAGCTTCTGCATGGGGGGCCTGGCGTGATCATGAGCCGGGAGGTGCTTCGGAGAATGG
TGCCGCACATTGGCAAGTGTCTCCGGGAGATGTACACCCCATGAGGACGTGGAGGTGGGAGGTGTGTCCGGA
GGTTTGAGGGGTGCAGTGTGCTGGTCTTATGAGATGCAGCAGCTTTTTTATGAGAATTACGAGCAGAACAAA
AGGGGTACATTAGAGATCTCCATAACAGTAAAATTACCAAGCTATCACATTACCCCCAACAAAAACCCACCCT
ACCACTACAGGCTCCACAGCTACATGCTGAGCCGCAAGATATCCGAGCTCCGCCATCGCACATAACAGCTGCACC
GCGAAATTGTCTGATGAGCAAATACAGCAACACAGAAATTCATAAAGAGGACCTCCAGCTGGGAATCCCTCCCT
CCTTATGAGGTTTTCAGCCCCGCCAGCGAGAGGAGATTCTGGAATGGGAGTTTCTGACTGGAAAATACTTGTATT
CGGCAGTTGACGGCCAGCCCCCTCGAAGAGGAATGGACTCCGCCAGAGGGAAGCCTTGGACGACATTGTATGC
AGGTCTAGGAGATGATCAATGCCAACGCCAAGACCAGAGGGCGCATATTGACTTCAAAGAGATCCAGTACGGCT
ACCGCCGGGTGAACCCCATGTATGGGGCTGAGTACATCCTGGACCTGTGCTTCTGTACAAAAGCACAAAGGGA
AGAAAATGACGGTCCCTGTGAGGAGGCACGCGTATTTACAGCAGACTTTCAGCAAAATCCAGTTTGTGGAGCATG
AGGAGCTGGATGCACAAGAGTTGGCCAAGAGAATCAATCAGGAATCTGGATCCTTGTCTTTCTCTCAAACCTCC
TGAAGAAGCTCGTCCCCTTTCAGCTCCCTGGGTGCAAGAGTGAGCACAAGAACCCAAAGATAAAAGATAAACA
TACTGATTCTTTGTCTGGGCGTTTCGACATGTTTGTGAGATTTATGGGAACTTTGAGAAGACGTGTCTTATCC
CCAATCAGAACGTCAAGCTCGTGGTTCTGCTTTTCAATTCTGACTCCAACCTGACAAGGCCAAACAAGTTGAAC
TGATGACAGATTACCGCATTAAAGTACCCTAAAGCCGACATGCAGATTTTGCCTGTGTCTGGAGAGTTTCAAGAG
CCCTGGCCCTGGAAGTAGGATCCTCCAGTTTAAACAATGAATCTTTGCTCTTCTCTGCGACGTGACCTCGTCT
TTACTACAGAATTCTTTCAGCGATGTCGAGCAAATACAGTTCTGGGCCAACAATAATTTTCCAATCATCTTCA
GCCAGTATGACCCAAAGATTGTTTATAGTGGGAAAGTTCCAGTGACAACCATTTTGCCTTTACTCAGAAAATG
GCTTCTGGAGAACTATGGGTTTGGCATCACGTGATTTTATAAGGGAGATCTTGTCCGAGTGGGTGGCTTTGATG
TTTCCATCCAAGGCTGGGGGCTGGAGGATGTGGACCTTTTCAACAAGGTTGTCCAGGCAGGTTTGAAGACGTTTA
GGAGCCAGGAAGTAGGAGTAGTCCACGTCCACCATCCTGTCTTTTGTGATCCCAATCTTGACCCCAAACAGTACA
AAATGTGCTTGGGGTCCAAAGCATCGACCTATGGGTCCACACAGCAGCTGGCTGAGATGTGGCTGGAAAAAATG
ATCCAAGTTACAGTAAAGCAGCAATAATAATGGCTCAGTGAGGACAGCCTAATGTCCAGCTTTGCTGGAAAAGA
CGTTTTTAATTATCTAATTTATTTTCAAAAATTTTGTATGATCAGTTTTTGAAGTCCGTATACAAGGATATA
TTTTACAAGTGGTTTTCTTACATAGGACTCCTTAAAGATTGAGCTTCTGAACAAGAAGGTGATCAGTGTGTC
TTTGAACACATCTTCTGCTGAACATTATGTAGCAGACCTGCTTAACCTTGACTTGAAATGTACCTGATGAACAA
AACTTTTTTAAAAAATGTTTTCTTTGAGACCTTTGCTCCAGTCCATGGCAGAAAACGTGAACATTCTTGCA
AAGTATTATTGTAACAAAACACTGTAACCTCTGGTAAATGTTCTGTGTGATTGTTAACATTCCACAGATTCTACC
TTTTGTGTTTTGTTTTTTTTTTTTTACAATTGTTTTAAAGCCATTTTCATGTTCCAGTTGTAAGATAAGGAAATGT
GATAATAGCTGTTTCATCATTGTCTTCAGGAGAGCTTCCAGAGTTGATCATTTCCTCATGGTACTCTGCTCA
GCATGGCCACGTAGGTTTTTTGTTGTTTTGTTTCTTTTTTGGAGACGGAGTCTCACTCTGTTACCCAGGC
TGAATGCAGTGGCGCAATCTTGGCTCACTTTAACCTCCACTTCCCTGGTTCAAGCAATTCCTGCTTTGCT

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FIGURE 2135B

CCCGAGTAGCTGGGATTACAGGCACACACCACCACGCCAGCTAGTTTTTTGTATTTTAGTAGAGACGGGGTT
TCACCATGCAAGCCCAGCTGGCCACGTAGGTTTTAAAGCAAGGGGCGTGAAGAAGGCACAGTGAGGTATGTGGCT
GTTCTCGTGGTAGTTCATTGGGCCTAAATAGACCTGGCATTAAATTTCAAGAAGGATTTGGCATTCTCTCTT
GACCCCTTCTCTTTAAAGGGTAAATATTAATGTTTAGAATGACAAAGATGAATTATTACAATAAATCTGATGTAC
ACAGACTGAAACACACACACATACACCCTAATCAAACGTTGGGGAAAAATGTATTTGGTTTTGTTCCCTTTCATC
CTGTCTGTGTTATGTGGGTGGAGATGGTTTTTATTCTTTTATTACTGTTTTGTTTTATCCTTGTATCTGAAATA
CCTTTAATTTATTTAATATCTGTTGTTTCAGAGCTCTGCCATTTCTTGAGTACCTGTTAGTTAGTATTATTTATGT
GTATCGGGAGTGTGTTTAGTCTGTTTTATTGTCAGTAAACCGATCTCCAAAGATTTCTTTTGGAAACGCTTTTT
CCCCCTCCTTAATTTTTATATTCTTACTGTTTTACTAAATATTAAGTGTCTTTGACAATTTTGGTGCTCATGTG
TTTTGGGGACAAAAGTGAATGAATCTGTCATTATACCAGAAAGTTAAATTCAGATCAAATGTGCCTTAATAA
ATTTGTTTTCAATTTAGATTTCAAACAGTGATAGACTTGCCATTTTAATACACGTCATTGGAGGGCTGCGTATTTG
TAAATAGCCTGATGCTCATTGGAATAAACCAGTGAACAATATTTTCTATTGTACTTTTCAGAACCATTTT
GTCTCATTATTCCTGTTTTAGCTGAAGAATTGTATTACATTTGGAGAGTAAAAAACTTAAACACG

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FIGURE 2136

MAARGRAWLSVLLGLVLGFVLASRLVLPRASELKRAGPRRRASPEGCRSGQAAASQAGGARGDARGAQLWPPGS
DPDGGPRDRNFLFVGVMTAQKYLQTRAVAAAYRTWSKTIPGKVQFFSSEGS DTSVP IPVVPLRGVDDSYPPQKKSF
MMLKYMHDHYLDKYEWFMRA DDDVYIKGDRLN FLRLSNSEPLFLGQTGLGTTEEMGKLAL EPGENFCMGGPGV
IMSREVLRRMVPHIGKCLREMYTT HEDVEVGRCVRRFAGVQCVWSYEMQQLFYENYEQNKKGYIRDLHNSKIHQA
ITLHPNKNPPYQYRLHSYMLSRKISELRHRTIQLHREIVLMSKYSNTEIHKEDLQLGIPPSFMRFPQRQREEILE
WEFLTGKYLYSAVDGQPPRRGMDSAQREALDDIVMQVMEMINANAKTRGRIIDFKEIQYGYRRVNP MYGA EYILD
LLLLYKHKHGKKMTVPVRRHAYLQQTFSKIQFVEHEELDAQELAKRINQESGSLSFLSNSLKKLVFFQLPGSKSE
HKEPKDKKINILIPLSGRFDMFVRFMGNFEKTCLIPNQNVKLVVLLFNSDSNPDKAKQVELMTDYRIKYPKADMQ
ILPVSGEFSRALALEVGSSQFNNESLFFCDVDLVFTTEFLQRCRANTVLGQQIYFPIIFSQYDPKIVYSGKVPS
DNHFAFTQKTGFWRNYGFGITCIYKGD LVRVGGFDVSIQGWGLEDVDLFNKVVQAGLKTFRSQEVGVVHVHHPVF
CDPNLDPKQYKMCLGSKASTYGSTQQLAEMWLEKN DPSYSKSSNNNGSVRTA

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FIGURE 2137

ACAGGAGGAGACAGCCTCCCGGCCCGGGGAGGACAAGTCGCTGCCACCTTTGGCTGCCGACGTGATTCCCTGGGA
CGGTCCGTTTCCTGCCGTCAACTGCCGGCCGAGTTGGGTCTCCGTGGTTTCAGGCCGGCTCCCCCTTCTGTGCTC
CCTTCTCCCGCTGGGCCGGTTTATCGGGAGGAGATTGTCTTCCAGGGCTAGCAATTGGACTTTTGATGATGTTTG
ACCCAGCGGCAGGAATAGCAGGCAACGTGATTTCAAAGCTGGGCTCAGCTCATGTTTCTTCTCTCGTGAATCGC
AAAACCCATTTTGGAGCAGGAATTCCAATCATGTCTGTGATGGTGGTGAGAAAGAAGGTGACACGGAAATGGGAG
AAACTCCCAGGCAGGAACACCTTTTGCTGTGATGGCCGCGTCATGATGGCCCGGCAAAAGGGCATTCTTCTACCTG
ACCCCTTTTCTCATCCTGGGGACATGTACACTCTTCTTCGCCTTTGAGTGCCGCTACCTGGCTGTTTCAGCTGTCT
CCTGCCATCCCTGTATTTGCTGCCATGCTCTTCCCTTTTCTCCATGGCTACACTGTTGAGGACCAGCTTCAGTGAC
CCTGGAGTGATTCTCGGGCGCTACCAGATGAAGCAGCTTTTCATAGAAATGGAGATAGAAGCTACCAATGGTGCG
GTGCCGGGCTACCAGCGACCAACCGCTCGTATCAAGAATTTCCAGATAAACAACCAGATTGTGAAACTGAAATAC
TGTTACACATGCAAGATCTTCCGGCCTCCCCGGGCCTCCATTGCAGCATCTGTGACAACCTGTGTGGAGCGCTTC
GACCATCACTGCCCCCTGGGTGGGGAATTGTGTTGAAAGAGGAACCTACCGCTACTTCTACCTCTTCATCCTTTCT
CTCTCCCTCCTCACAATCTATGTCTTTCGCCTTCAACATCGTCTATGTGGCCCTCAAATCTTTGAAAATTGGCTTC
TTGGAGACATTGAAAGAACTCCTGGAACGTCTTAGAAGTCCTCATTGCTTCTTTTACACTCTGGTCCGTCGTG
GGACTGACTGGATTTTATACCTTTCCTCGTGGCTCTCAACCAGACAACCAATGAAGACATCAAAGGATCATGGACA
GGGAAGAATCGCGTCCAGAATCCCTACAGCCATGGCAATATTGTGAAGAACTGCTGTGAAGTGCTGTGTGGCCCC
TTGCCCCCAGTGTGCTGGATCGAAGGGGTATTTTGCCACTGGAGGAAAGTGGAAGTCGACCTCCAGTACTCAA
GAGACCAGTAGCAGCCTCTTGCCACAGAGCCCAGCCCCACAGAACACCTGAACTCAAATGAGATGCCGGAGGAC
AGCAGCACTCCCGAAGAGATGCCACCTCCAGAGCCCCCAGAGCCACCACAGGAGGCAGCTGAAGCTGAGAAGTAG

CCTATCTATGGAAGAGACTTTTGTGTTGTTTTAATTAGGGCTATGAGAGATTTTCAGGTGAGAAGTTAAACCTGAG
ACAGAGAGCAAGTAAGCTGTCCCTTTTAATTGTTTTCTTTGGTCTTTAGTCACCCAGTTGCACACTGGGCATTT
TCTTGGCTGGCAAGCTTTTTTTTAAAATTGCTGAAACTTCAAGGGCAGTGGCCAGGAAGGATGTTTCAGTTCACCT
CTGGATAAACTGGGAAAAATGGGGTCTCTTGGGGCCGGGCACTGGTTT

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FIGURE 2138

MFLSCNRKTHFGAGIPIMSVMVVRKKVTRKWEKLPGRNTFCCDGRVMMARQKGIFYLTFLIILGTCTLFFAFEC
RYLAVQLSPAIPVFAAMLFLFSMATLLRTSFSDPGVIPRALPDEAAFIEMEIEATNGAVPGYQRPPPRIKNFQIN
NQIVKLYCYTCKIFRPPRASHCSICDNCVERFDHHC PWVGNCVGKRNRYFYLFILSLSLTIYVFAFNIVYVA
LKSLKIGFLETLKETPGTVLEVLI CFFTLWSVVGLTGFHTFLVALNQTTNEDIKGSWTGKNRVQNPYSHGNIVKN
CCEVLCGPLPPSVLDRRGILPLEESGSRPPSTQETSSSLLPQSPAPTEHLNSNEMPEDSSTPEEMPPPEPPEPPQ
EAAEAEK

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FIGURE 2139

CTTTGTTTTGCTTCGAGATGGCTGCGGGGATGTATTGGAACATTATCTGGACAGTATTGAAAACCTTCCCTTTG
AATTACAGAGAACTTTTCAGCTCATGAGGGACCTAGACCAAAGAACAGAGGACCTGAAGGCTGAAATTGACAAGT
TGGCCACTGAGTATATGAGTAGTGCCCGCAGCCTGAGCTCCGAGGAAAAATTGGCCCTTCTCAAACAGATCCAGG
AAGCCTATGGCAAGTCAAGGAATTTGGTGACGACAAGGTGCAGCTTGCCATGCAGACCTATGAGATGGTGGACA
AACACATTCGGCGGCTGGACACAGACCTGGCCCGTTTTGAGGCTGATCTCAAGGAGAAACAGATTGAGTCAAGTG
ACTATGACAGCTCTTCCAGCAAAGGCCAAAAGAAAGGCCGACTCAAAGGAGAAAGAAAGCTGCTCGTGCTCGTT
CCAAAGGGAAAACTCGGATGAAGAAGCCCCAAGACTGCCCAGAAGAAGTTAAAGCTCGTGCGCACAAGTCCTG
AGTATGGGATGCCCTCAGTGACCTTTGGCAGTGTCACCCCTCTGATGTGTTGGATATGCCTGTGGATCCCAACG
AACCACCTATTGCCTTTGTCAACCAGGTCTCCTATGGAGAGATGATTGGCTGTGACAACCCTGATTGTTCCATTG
AGTGGTTCCATTTTGCTGTGTGGGGCTGACAACCAAGCCTCGGGGGAAATGGTTTTGCCACGCTGCTCCCAAG
AACGGAAGAAGAAATAGATAAGGGCCTTGGAATCCAACACAGTTTCTTCCACATCCCCTGACTTGGGCTAGTGGG
CAGAGGAATGCCTGTGCTGGGGCCAGGGGTTTCAGGGAGGAGTGGATGGCACAGTGCTGTGATCCCTTCTCCTCCC
CTCTCCCCACTCCCGGTGCTGAGGCTGCATCAGACCCTGGTAGGGAGGGGTGCCGCAGCCACTAACGGTATGTGC
TCTCCTTCAGCCCTCTCCTTCGGAGGGACGTGGTCTTGCCCACTGTCCTTTTGCCTCCATGCTGAGGTGCGGTGCT
GTATTTTCAGAGGGAGGGTCCTTTTCAATTCCTTGCTTTGTATTTAAGGACTGGGGCATAGCATGGGGGCAGTCC
CCCAGACCTCTTCAATCCCCCTCCTGTGGTGAGGGCTAGGTGTGATCAACACTTTTCTTCTCCATTCCCTTCCTG
CTTTTTTCATGGTGGGGATCCACCAGGTCACTAGCTCTGGCCCTAGTTGAAGGGCACCCCTTCTCTGTGCCAA
GAGGATTCACTCTGGGAGAGGGGGCAAGGTGGAATGCAGATAACTCACATGTAAAAGGAACCTGGGTAGGTAAAT
AAAAGCTATACATGTTGAAAAAAAAA

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FIGURE 2140

MAAGMYLEHYLDSIENLPFELQRFQLMRDLQRTEDLKAIEDKLATEYMSSARSLSEEKLALLKQIQEAYGKC
KEFGDDKVQLAMQTYEMVDKHIRRLDTDLARFEADLKEKQIESDYDSSSSKGKKKGRTQKEKKAARARSKGKNS
DEEAPKTAQKKLKLVRTSPEYGMPSVTFGSVHPSDVLMPVDPNEPTYCLCHQVSYGEMIGCDNPDCSIEWFHFA
CVGLTTKPRGKWFCPRCSQERKKK

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FIGURE 2141

TGCAGTCTGTCTGAGGGCGGCCGAAGTGGCTGGCTCATTTAAGATGAGGCTTCTGCTGCTTCTCCTAGTGGCGGC
GTCTGCGATGGTCCGGAGCGAGGCCCTCGGCCAATCTGGGCGGCGTGCCAGCAAGAGATTAAAGATGCAGTACGCC
ACGGGGCCGCTGCTCAAGTTCCAGATTTGTGTTTTCTGAGGTTATAGGCGGGTGTGTTGAGGAGTACATGCGGGTT
ATTAGCCAGCGGTACCCAGACATCCGCATTGAAGGAGAGAATTACCTCCCTCAACCAATATATAGACACATAGCA
TCTTTCCTGTCTAGTCTTCAAAGTAGTATTAATAGGCTTAATAATTGTTGGCAAGGATCCTTTTGCTTTCTTTGGC
ATGCAAGCTCCTAGCATCTGGCAGTGGGGCCAAGAAAATAAGGTTTATGCATGTATGATGGTTTTCTTCTTGAGC
AACATGATTGAGAACCAGTGTATGTCAACAGGTGCATTTGAGATAACTTTAAATGATGTACCTGTGTGGTCTAAG
CTGGAATCTGGTCACCTTCCATCCATGCAACAACCTTGTTCAAATTCTTGACAATGAAATGAAGCTCAATGTGCAT
ATGGATTCAATCCACACCATCGATCATAGCACCACCTATCAGCACTGAAAACCTTTTTGCATTAAGGGATCATT
GCAAGAGCAGCGTGACTGACATTATGAAGGCCTGTACTGAAGACAGCAAGCTGTTAGTACAGACCAGATGCTTTC
TTGGCAGGCCTCGTTGTACCTCTTGGAACCTCAATGCAAGATAGTGTTCAGTGCTGGCATATTTTGAATTCT
GCACATTGATGGAGTGCAATAATACTGTATAGCTTTCCCCACCTCCACAAAATCACCCAGTTAATGTGTGTGT
GTGTGTTTTTTTTAAGGTAAACATTACTACTTGTAACTTTTTTCTTTAGTCATATTTGAAAAAGTAGAAAATT
GGAGTTACATTTGGATTTTTTTTTCCAA

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FIGURE 2142

MQYATGPLLKFQICVSXGYRRVFEEYMRVISQRYPDIRIEGENYLPQPIYRHIAFSLSVFKLVLIIGLIIVGKDPF
AFFGMQAPSIWQWGQENKVYACMMVFFLSNMIENQCMSTGAFEITLNDVPVWSKLESGHLP SMQQLVQILDNEMK
LNVHMDSIPHRS

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FIGURE 2143

CGGCCTTGTCAGCTCACAGCAGGCGTTAACAGCCTCTAATTGAGGAACTGTGGCTGGACAGGTTGCAAGGCAGT
TCTGCTCCCCATCGTCTCTTGCTGACTGGGGACTGCTGAGCCCGTGACGGCAGAGAGTCTGGTGGGGTGGAGG
GGCTGGCCTGGCCCCCTCTGTCTGTGGAAATGCTGGGGCAAGTGGTCACCCTCATACTCCTCTGCTCCTCAAGG
TGTATCAGGGCAAAGGATGCCAGGGATCAGCTGACCATGTGGTTAGCATCTCGGGAGTGCCTCTTCAGTTACAAC
CAAACAGCATACAGACGAAGGTTGACAGCATTGCATGGAAGAAGTTGCTGCCCTCACAAAATGGATTTCATCACA
TATTGAAGTGGGAGAATGGCTCTTTGCCTTCCAATACTTCCAATGATAGATTTCAGTTTTATAGTCAAGAACTTGA
GTCTTCTCATCAAGGCAGCTCAGCAGCAGGACAGTGGCCTCTACTGCCTGGAGGTCACCAGTATATCTGGAAAAG
TTCAGACAGCCACGTTCCAGGTTTTTGTATTTGATAAAGTTGAGAAACCCCGCTACAGGGGCAGGGGAAGATCC
TGGACAGAGGGAGATGCCAAGTGGCTCTGTCTTGTCTGGTCTCCAGGGATGGCAATGTGCTCTATGCTTGGTACA
GAGGGAGCAAGCTGATCCAGACAGCAGGGAACCTCACCTACCTGGACGAGGAGGTTGACATTAATGGCACTCACA
CATATACCTGCAATGTCAGCAATCCTGTTAGCTGGGAAAGCCACACCCTGAATCTCACTCAGGACTGTGAGAATG
CCCATCAGGAATTCAGATTTTGGCCGTTTTTGGTGATCATCGTGATTCTAAGCGCACTGTTCTTGGCACCCTTG
CCTGCTTCTGTGTGTGGAGGAGAAAGAGGAAGGAGAAGCAGTCAGAGACCAGTCCCAAGGAATTTTTGACAATTT
ACGAAGATGTCAAGGATCTGAAAACCAGGAGAAATCACGAGCAGGAGCAGACTTTTCTGGAGGGGGGAGCACCA
TCTACTCTATGATCCAGTCCCAGTCTTCTGCTCCACGTCACAAGAACCTGCATATACATTATATTTCATTAATTC
AGCCTTCCAGGAAGTCTGGATCCAGGAAGAGGAACCACAGCCCTTCTTCAATAGCACTATCTATGAAGTGATTG
GAAAGAGTCAACCTAAAGCCCAGAACCTGCTCGATTGAGCCGCAAAGAGCTGGAGAACTTTGATGTTTTATTCTT
AGTTGCTGCAGCAATTCTCACCTTTCTTGACATCAGCATCTGCTTTGGGAATTGGCACAGTGGATGACGGCACA
GGAGTCTCTATAGAACACTTCCTAGTCTGGAGAGGATATGGAAATTTGTTCTTGTCTATATTTGTTTTGAAAA
TGATGTCTAACCAACCATGATAAGAGCAAGGCTGTTAAATAATATCTTCCAATTTACAGATCAGACATGAATGGGT
GGAGGGGTTAGGTTGTTTCAAAAAGGCCACATTCCAAGTATTTGTAATCTAGAAAGTGTTATGTAAGTGATGTTA
TTAGCATCGAGATTCCCTCCACCTGATTTTCAAGCTGTCACTTGTTTCTTTCTCCCTCTCTGGGTTGACTGC
ATTTCTAGACTCTCGCCGGCCAGGCCCATCTTCCAAAGCAAGAGGAAGGAATGATAATGGTGACTCAGGGGAAG
AAGAAACAGCCCTCCTCTGAAAGCCTGGACTGTCCGGCTGTGAAGTGGCTGGCAGGTTCTGCACGTGGGTGGGG
CCAGGGCCTGGGCTTTACTCAATTGCAGAGAAAAACTTTCTCCCTGCATCTCATACCTTTACCTCTGGCCAGTT
GGCCACCAGGGGGAGTGGGCTGAAGGGAGAGTAGATGGTGCAAAGCAAGCCCATCTCTGAGTAGAAAAATCACCC
AGAGCACATGCTGACCTGATAACTGGGGTGTGAGACCAGCTTTGTCCATGGTATGATGTTTGATTTATGAAGAC
GCATTGTTAGAAATCCATTTGGCTTCTTCATAGAAGTGGCTTCCAGAGGAAGAGGCCTCTCAGAAACCATGTTT
TATTTAAGTTCTGAGTCTGATGAGTGTCCCCAGGATGCACATTGAAGGGAGGGCTCAGGCAGCTGAGGGCTGA
GAATGAGGCAGTTGGAATCTAGACACTATGCTGGGTTCCCTGAGTCGTCAGGCCAGACATTTCAACAAGGCTGTG
GGGAGCAGGGCTGTGACTCTGGCTGAGCCAGGAAAGCGACAAGGGTGAAGTGGGAGAGGACTTACTCAGAGACC
CCAACAGGTGATACTGCACAAAGCCTGGTTCTTCAATTTTCTACCTGTATCTAACATAGGAGTTTCATATAAA
ACGGTGATATCATGCAGATGCAGTCTGAATTCCTTGCCTG

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FIGURE 2144

MLGQVVTLILLLLKVVYQGKGCQGSADHVVSISGVPLQLQPNSIQTKVDSIAWKKLLPSQNGFHHILKWENGLP
SNTSNDRFSEIVKNLSLLIKAAQQQDSGLYCLEVTSSISGKVQTATFQVFVFDKVEKPRLQGGKILDRGRCQVAL
SCLVSRDGNVSYAWYRGSKLIQTAGNLTYLDEEVDINGHTYTCNVSNPVSWSHTLNLTQDCQNAHQEFWF
LVIIIVILSALFLGTLACFCVWRRKRKEKQSETSPKEFLTIYEDVKDLKTRRNHEQEQTFFGGGSTIYSMIQSQSS
APTSQEPAYTLYSLIQPSRKSGSRKRNHSPSFNSTIYEVIGKSQPKAQNPARLSRKELENFDVYS

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FIGURE 2145A

GGCCCGCTGCGAGGAGGAGGCGGCGGCGCAGGAGGATGTACTTGGTGGCGGGGACAGGGGGTTGGCCGGC
TGCGGGCACCTCCTGGTCTCGCTGCTGGGGCTGCTGCTGCTGCTGGCGCGCTCCGGCACCCGGGCGCTGGTCTGC
CTGCCCTGTGACGAGTCCAAGTGCGAGGAGCCAGGAAGTGGCGGGGAGCATCGTGAGGGCGTCTGCGGCTGC
TGCTACACGTGCGCCAGCCAGAGAACGAGAGCTGCGGCGGCACCTTCGGGATTTACGGAACCTGCGACCGGGG
CTGCGTTGTGTCATCCGCCCCCGCTCAATGGCGACTCCCTCACCGAGTACGAAGCGGGCGTTTGCGAAGATGAG
AACTGGACTGATGACCAACTGCTTGGTTTTAAACCATGCAATGAAAACCTTATTGCTGGCTGCAATATAATCAAT
GGGAAATGTGAATGTAACACCATTTCGAACCTGCAGCAATCCCTTTGAGTTTCCAAGTCAGGATATGTGCCTTTCA
GCTTTAAAGAGAATTGAAGAAGAGAAGCCAGATTGCTCCAAGGCGCGTGTGAAGTCCAGTTCTCTCCACGTTGT
CCTGAAGATTCTGTTCTGATCGAGGGTTATGCTCCTCGGGAGTGCTGTCCCTTACCCAGCCGCTGCGTGTGC
AACCCCGCAGGCTGTCTGCGCAAAGTCTGCCAGCCGGGAAACCTGAACATACTAGTGTCAAAGCCTCAGGGAAG
CCGGGAGAGTGCTGTGACCTCTATGAGTGCAAACCAAGTTTTCGGCGTGACTGCAGGACTGTGGAATGCCCTCCT
GTTTCAGCAGACCCGCTGTCCCCGGACAGCTATGAACTCAAGTCAGACTAAGTCAGATGGTTGCTGTACTTTG
CCAACAAGATGCGAGTGTCTCTCTGGCTTATGTGGTTTCCCCGTGTGTGAGGTGGGATCCACTCCCCGCATAGTC
TCTCGTGGCGATGGGACACCTGGAAAGTGTGTGATGTCTTTGAATGTGTTAATGATACAAAGCCAGCCTGCGTA
TTTAACAATGTGAATATTATGATGGAGACATGTTTGAATGGACAAGTGTGCGTTCTGTGATGCCAAGGGGGC
GTTGCCATCTGCTTCACTGCCCAGTGTGGTGAGATAAACTGCGAGAGGTACTACGTGCCCGAAGGAGAGTGCTGC
CCAGTGTGTGAAGATCCAGTGTATCCTTTTAATAATCCGCTGGCTGTATGCCAATGGCCTGATCCTTGCCAC
GGAGACCGGTGGCGGAAGACGACTGCACATTCTGCCAGTGCCTCAACGGTGAACGCCACTGCGTTGCGACCGTC
TGCGGACAGACCTGCACAAACCTGTGAAAGTGCCTGGGGAGTGTGCCCTGTGTGCGAAGAACCAACCATCATC
ACAGTTGATCCACCTGCATGTGGGGAGTTATCAAAGTGCCTGTGACAGGGAAGGACTGCATTAATGGTTTCAA
CGCATCACAATGGTTGTGCGACCTGTGAGTGATAAACACCGAGGAAGTATGTTTCAAGCGTAAACAAGGCTGC
ACCTTGAAGTGTCCCTTCGGTTTCTTACTGATGCCCCAAACTGTGAGATCTGTGAGTGCCGCCCCAAGGCCAAG
AAGTGCAGACCCATAATCTGTGACAAGTATTGTCCACTTGGATTGCTGAAGAATAAGCACGGCTGTGACATCTGT
CGCTGTAAGAAATGTCCAGAGCTCTCATGCAGTAAGATCTGCCCCTTGGGTTTCCAGCAGGACAGTCACGGCTGT
CTTATCTGCAAGTGCAGAGAGGCTCTGCTTCAGCTGGGCCACCCATCCTGTGCGGCACCTGTCTCACCGTGGAT
GGTCATCATCATAAAATGAGGAGAGCTGGCACGATGGGTGCCGGAATGCTACTGTCTCAATGGACGGGAAATG
TGTCGCCCTGATCACCTGCCCGGTGCCTGCTGTGGCAACCCCAACATTACCCCTGGACAGTGTGCCCATCATGT
GCAGATGACTTTGTGGTGCAGAAGCCAGAGCTCAGTACTCCCTCCATTGTCACGCCCCCTGGAGGAGAATACCTT
GTGGAAGGAGAAACGTGGAACATTGACTCCTGTACTCAGTGCACCTGCCACAGCGGACGGGTGCTGTGTGAGACA
GAGGTGTGCCACCGCTGCTCTGCCAGAACCCTCAGCACCCAGGATTCTGCTGCCACAGTGTACAGATCAA
CCTTTTCGGCCTTCTTGTCCCGCAATAACAGCGTACCTAATTACTGCAAAATGATGAAGGGATATATTCTCTG
GCAGCTGAGTCTTGAAGCCTGACGTTTGTACCAGCTGCATCTGCATTGATAGCGTAATTAGCTGTTTCTCTGAG
TCCTGCCCTTCTGTATCTGTGAAAGACCTGTCTTGAGAAAAGGCCAGTGTGTCCCTACTGCATAGAAGACACA
ATTCCAAAGAAGGTGGTGTGCCACTTCAGTGGGAAGGCCTATGCCGACGAGGAGCGGTGGGACCTTGACAGCTGC
ACCCACTGCTACTGCCTGCAGGGCCAGACCTCTGCTCGACCGTCAGCTGCCCCCTCTGCCCTGTGTTGAGCCC
ATCAACGTGGAAGGAAGTTGCTGCCCAATGTGTCCAGAAATGTATGTCCAGAACCAACCAATATACCCATTGAG
AAGACAAACCATCGAGGAGAGGTTGACCTGGAGGTTCCCTGTGGCCACGCTAGTGAAGATGATATCGTCCAT
CTCCCTAGAGATATGGGTACCTCCAGGTAGATTACAGAGATAACAGGCTGCACCCAAGTGAAGATTCTTCACTG
GACTCCATTGCCCTCAGTTGTGGTTCCCATTAATTATAGCCTCTCTATTATAATAGCATTCTTATCATCAATCAG
AAGAAACAGTGGATACCACTGCTTGTGCTGATCGAACACCACTAAGCCTTCTTCCCTTAAATAATCAGCTAGTA
TCTGTGGACTGCAAGAAAGGAACAGAGTCCAGGTGGACAGTTCCAGAGAATGCTAAGAATTGCAGAACAGAT
GCAAGATTCACTGGCTTCTACAGCATGCAAAAACAGAACCATCTACAGGCAGACAATTTCTACCAAAACAGTGTGA

AGAAAGGCAACTAGGATGAGGTTTCAAAGACGGAAGACGACTAAATCTGCTCTAAAAAGTAACTAGAATTTGT
GCATTGCTTAGTGGAATTGTATTGGATTGTGACTTGATGTACAGCGCTAAGACCTTACTGGGATGGGCTCTGTCT
ACAGCAATGTGAGAACAAGCATTCCCACTTTTCTCAAGATAACTGACCAAGTGTCTTCTAGAACCAAGTTT
TTAAAGTTGCTAAGATATATTGCTGTAAAGATAGCTGTAGAGATATTTGGGGTGGGGACAGTGAGTTTGGATGG
GGAAATGGGTGGGAGGGTGGTGTGGGAAGAAAATTTGGTCAGCTTGGCTCGGGGAGAAAACCTGGTAACATAAAA
GCAGTTCACTGGCCAGAGGTTATTTTTTCTATTGCTCTGAAGACTGCACTGGTTGCTGCAAGCTCAGGCT

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FIGURE 2145B

GAATGAGCAGGAAACAAAAAGGCCTTGCGACCCAGCTGCCATAACCACCTTAGAACTACCAGACGAGCACATCA
GAACCCCTTTGACAGCCATCCCAGGTCTAAAGCCACAAGTTTCTTTTCTATACAGTCACAACGAGTAGGCAGTG
AGGAAGCCAGAGAAATGCGATAGCGGCATTTCTCTAAAGCGGGTTATTAAGGATATATACAGTTACACTTTTTGC
TGCTTTTATTTTCTTCCAAGCCAATCAATCAGCCAGTTCCTAGCAGAGTCAGCACATGAACAAGATCTAAGTCAT
TTCTTGATGTGAGCACTGGAGCTTTTTTTTTTTTACAACGTGACAGGAAGAGGAGGGAGAGGGTGACGAACACCA
GGCAATTTCCAGGGGCTATATTTCACTGTTTGTGTGTGCTTGTCTGTTATATTGTTGGTTGTTTCATAGTTTTTG
TTGAAGCTCTAGCTTAAGAAGAAACTTTTTTAAAAAGACGTGTTGGGGATTCTTTTCTTATTATATACTGAT
TCTACAAAAATAGAACTACTTCATTTTAATTGTATATTATTCAAGCACCTTGTGGAAGCTCAAAAAAATGATG
CCTCTTTAACTTTAGCAATTATAGGAGTATTTATGTAACCTATCTTATGCTTCAAAAAACAAAAGTATTGTGTG
CATGTGTATATAATATATATATATACATATATATTTATACACATACAATTTATGTTTTCTGTTGAATGATTTTT
TATGAGATTTTAACCAGAACAAAGGCAGATAAACAGGCATTCCATAGCAGTGCTTTTGATCACTTACAAAATTTT
TGAATAACACAAAAATCTCATTCTACCTGCAGTTTAATTGGAAGATGTGTGTGTGAGAGTATGTATGTGTGTGTG
TGTGTGTGTGTGTGTGCGCGCGCACGCACGCCTTGAGCAGTCAGCATTGCACCTGCTATGGAGAAGGGTATTCTT
TTATTAATAATCTTCTCATTGATTGCTTTTCAGTTGGTTTTTCAATTTGCTCACTGGCCAGAGACATTGATGGC
AGTTCTTATCTGCATCACTAATCAGCTCCTGGATTTTTTTTTTTTTTTTCAAACAATGGTTTGAACAACCTAC
TGGAATATTGTCCACAATAAGCTGGAAGTTTGTGTAGTATGCCTCAAATATAACTGACTGTATACTATAGTGGT
AACTTTTCAAACAGCCCTTAGCACTTTTATACTAATTAACCCATTTGTCATTGAGTTTTCTTTTAAAAATGCTT
GTTGTGAAAGACACAGATACCCAGTATGCTTAACGTGAAAAGAAAATGTGTTCTGTTTTGTAAAGGAACTTCAA
GTATTGTTGTAAATACTTGACAGAGGTTGCTGAACCTTAAAAAAAATTAATTTATTATTATAATGACCTAATTT
ATTAATCTGAAGATTAACCATTTTTTTGTCTTAGAATATCAAAAAGAAAAAGAAAAGGTGTTCTAGCTGTTTGC
ATCAAAGGAAAAAAGATTTATTATCAAGGGGCAATATTTTATCTTTTCCAAAATAAATTGTTAATGATACAT
TACAAAAATAGATTGACATCAGCCTGATTAGTATAAATTTGTTGGTAATTAATCCATTCTGGCATAAAAAGTC
TTTATCAAAAAAATTTAGATGCTTGCTTTTTGTTTTTCAATCATGGCCATATTATGAAAATACTAACAGGAT
ATAGGACAAGGTGTAAATTTTTTTATTATTATTTTAAAGATATGATTTATCCTGAGTGCTGTATCTATTACTCTT
TTACTTTGGTTCCGTGTTGTGCTCTTGTAAAAGAAAAATATAATTTCTGAAGAATAAATAGATATATGGCACTT
GGAGTGCATCATAGTTCTACAGTTTGTTTTTGTTTTCTTCAAAAAAGCTGTAAGAGAATTATCTGCAACTTGATT
CTTGGCAGGAAATAACATTTTGAGTTGAAATCAAAAAAATAAAAAA

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FIGURE 2146

MYLVAGDRGLAGCGHLLVSLGLLLLLLARSGLTRALVCLPCDESKCEEPRNCPGSIQGVCGCCYTCASQRNESC
GTFGIYGTCDRGLRCVIRPPLNGDSLTEYEAGVCEDENWTDQLLGFKPCNENLIAGCNIINGKCECNTIRTCSN
PFEFFSQDMCLSALKRIEEEKPDCSKARCEVQFSPRCPEDSVLIEGYAPPGGCCPLPSRCVCNPAGCLRKVCQPG
NLNILVSKASGKPGGCCDLYECKPVFGVDCRTVECPVQQTACPPDSYETQVRLTADGCCTLPTRCECLSGLCGF
PVCEVGSTPRIVSRGDGTPGKCCDVFEVCVNDTKPACVFNNVEYYDGMFRMDNCRFCRCQGGVAICFTAQCGEIN
CERYVPEGECCPVCEDPVYFNNPAGCYANGLILAHGDRWREDDCTFCQCVNGERHCVATVCGQTCTNPVKVPG
ECCPVCEEPTIITVDPPACGELSNCITLGKDCINGFKRDHNGCRTQCINTEELCSERKQGCTLNCPFGFLTDAQ
NCEICECRPRPKKCRPIICDKYCPLGLLKNKHGCDICRCKKPELSCSKICPLGFQQDSHGCLICKCREASASAG
PPILSGTCLTVDGHHHKNEESWHDGCRECYCLNGREMCALITCPVPACGNPTIHPGQCCPSCADDFVVQKPELST
PSICHAPGGEYFVEGETWNIDSCTQCTCHSGRVLCETEVCPELLCQNPSRTQDSCCPQCTDQPFRLSRNNSVP
NYCKNDEGDIFLAAESWKPDVCTSCICIDSVISCFSESCPSVSCERPVLKRGQCCPYCIEDTIPKKVVCHFSGKA
YADEERWDLDSCTHCYCLQGQTLCTVSCPPLPCVEPINVEGSCCPMCPEMYVPEPTNIPIEKTNHRGEVDLEVP
LWPTPSENDIVHLPRDMGHLQVDYRDNRLHPSEDSSLDIASVVVPIIICLSIIAFLFINQKKQWIPLLCWYRT
PTKPSSLNNQLVSVDCCKGTRVQVDSSQRMLRIAEPDARFSGFYSMQKQNLQADNFYQTV

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FIGURE 2147

AACTCGGTGAACAACCTGAGGGGAACCAACCAGAGACGCGCTGAACAGAGAGAATCAGGCTCAAAGCAAGTGAAG
TGGGCAGAGATTCCACCAGGACTGGTGCAAGGCCGAGAGCCAGCCAGATTTGAGAAGAAGGCCAAAAAGATGCTGG
GGAGCAGAGCTGTAATGCTGCTGTTGCTGCTGCCCTGGACAGCTCAGGGCAGAGCTGTGCCTGGGGGCAGCAGCC
CTGCCTGGACTCAGTGCCAGCAGCTTTACAGAAGCTCTGCACACTGGCCTGGAGTGCACATCCACTAGTGGGAC
ACATGGATCTAAGAGAAGAGGGAGATGAAGAGACTACAAATGATGTTCCCCATATCCAGTGTGGAGATGGCTGTG
ACCCCCAAGGACTCAGGGACAACAGTCAGTTCTGCTTGCAAAGGATCCACCAGGGTCTGATTTTTTATGAGAAGC
TGCTAGGATCGGATATTTTACAGGGGAGCCTTCTCTGCTCCCTGATAGCCCTGTGGGCCAGCTTCATGCCTCCC
TACTGGGCCTCAGCCAACCTCCTGCAGCCTGAGGGTCACCACTGGGAGACTCAGCAGATTCCAAGCCTCAGTCCCA
GCCAGCCATGGCAGCGTCTCCTTCTCCGCTTCAAAATCCTTCGCAGCCTCCAGGCCTTTGTGGCTGTAGCCGCC
GGGTCTTTGCCCATGGAGCAGCAACCCTGAGTCCCTAAAGGCAGCAGCTCAAGGATGGCACTCAGATCTCCATGG
CCCAGCAAGGCCAAGATAAATCTACCACCCAGGCACCTGTGAGCCAACAGGTTAATTAGTCCATTAATTTTAGT
GGGACCTGCATATGTTGAAAATTACCAATACTGACTGACATGTGATGCTGACCTATGATAAGGTTGAGTATTTAT
TAGATGGGAAGGGAAATTTGGGGATTATTTATCCTCCTGGGGACAGTTTGGGGAGGATTATTTATTGTATTTATA
TTGAATTATGTACTTTTTTCAATAAAGTCTTATTTTGTGGCTAAAAAAA

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FIGURE 2148

MLGSRVMLLLLLPWTAAQGRAVPGGSSPAWTQCQQLSQKLCTLAWSAHLVGHMDLREEGDEETTNDVPHIQCGD
GCDPQGLRDNSQFCLQRIHQGLIFYEKLLGSDIFTGEPSSLPDSPVQQLHASLLGLSQLQPEGHHWETQQIPSL
SPSQPWQRLLLRFKILRSLQAFVAVAAARVFAHGAATLSP

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FIGURE 2149

GCAGGTAGGTGGACGGAGAGATAGCAGCGACGAGGACAGGCCAAACAGTGACAGCCACGTAGAGGATCTGGCAGA
CAAAGAGACAAGGTGAGAAGGAGACTTTGGAAGTGACCCACCATGGGGCTCAGCATCTTTTTGCTCCTGTGTGT
CTTGGGCTCAGCCAGGCAGCCACACCGAAGATTTTCAATGGCACTGAGTGTGGGCGTAACCTACAGCCGTGGCAG
GTGGGGCTGTTTGAGGGCACCAGCCTGCGCTGCGGGGGTGTCTTATTGACCACAGGTGGGTCTCACAGCGGCT
CACTGCAGCGGCAGCAGGTACTGGGTGCGCCTGGGGGAACACAGCCTCAGCCAGCTCGACTGGACCGAGCAGATC
CGGCACAGCGGCTTCTCTGTGACCCATCCCGGCTACCTGGGAGCCTCGACGAGCCACGAGCACGACCTCCGGCTG
CTGCGGCTGCGCCTGCCCCTCCGCGTAACCAGCAGCGTTCAACCCCTGCCCCTGCCCAATGACTGTGCAACCGCT
GGCACCGAGTGCCACGTCTCAGGCTGGGGCATCACCAACCACCCACGGAACCCATTCCCGGATCTGCTCCAGTGC
CTCAACCTCTCCATCGTCTCCCATGCCACCTGCCATGGTGTGTATCCCGGGAGAATCAGGAGCAACATGGTGTGT
GCAGGCGGCGTCCCGGGGCAGGATGCCTGCCAGGGTGATTCTGGGGGCCCCCTGGTGTGTGGGGGAGTCCTTCAA
GGTCTGGTGTCTGGGGGTCTGTGGGGCCCTGTGGACAAGATGGCATCCCTGGAGTCTACACCTATATTGCAAC
TCCACTCTTGTGGCCTGGGAACCTTCTTGGAACTTTAACTCCTGCCAGCCCTTCTTAAGACCCACGAGCGGGGTGA
GAGAAGTGTGCAATAGTCTGGAATAAATATAAATGAAGGAGGGGC

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FIGURE 2150

MGLSIFLLLCVLGLSQAATPKIFNGTECGRNSQPWQVGLFEGTSLRCGGVLIDHRWVLTAAHCSGSRYWVRLGEH
SLSQLDWTEQIRHSGFSVTHPGYLGASTSHEHDLRLLRLRLPVRVTSSVQPLPLPNDCATAGTECHVSGWGITNH
PRNPFPDLLQCLNLSIVSHATCHGVYPGRITSNMVCAGGVPGQDACQGDSSGGPLVCGGVLQGLVSWGSGVPCGQD
GIPGVYTYICNSTLVGLGTSWNFNSCQPF

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FIGURE 2151

GGGATTTTTTAAAAATCAAAATACAAATCCAACCTTTTGTAGTTTTTCGTTGTCATTGCTCTTATCTTTCTGAGTC
ACTTCCCATTTTTCCAAACTCAGCAACCCAGTTTGCAGTCTGGTTTCATGAACCTTTGTAAAGGTGTTTGGTGCG
GTCACRGTGTATACTTGCCGTGTAGTATTTGACTCAGCGCATCTGCCTTGAGTCATTTTACCGCGGCCATTAC
TACTGCCGTTGAGCCCTGTCCACGCCCTGGGAGTGTGATATGTTGAGAGTTTTCTGTCTGGCTGRGGAGGGATC
ATTTAGTTTTTTCGGACGTATGTTGCACTGAGGATTTAGGGAGAGAGCAAGATTTCTGTTGAGGAGGTTTCAGAAG
TATAAGGAATCGGGAGAGTAGATAGGAGTGAAGCATTGGCAGCGTAAAGAAGCTTGGCTTAGCTTTAATGGATT
AGGGAGAGATTGCTATCTAGCATTATTACATGTTATTGTTCTCTTTGCTATTTTATACACCTAGAACAACCTTTC
CCTCGGGGTTAACAAACATCTTCAACTCTGTTTTCTGTATGGCTCCTGACTCTTACCTTTGTTTTAGGAGGCTTC
CCTCTTCAGAGGAACTGGGAGAAGCCAATTTCCACTGCTTCTTTTTCTGTGCCTTTTTAACACTCAAACCCAG
AACACTTAATCCTCTGCAGCTCGTGCAAAAATTCAGTCTGTAATTTAAAATGTGTGCACGGTACACTGCTGACCA
TGGGCATGTCTATTGTTGTATCTGTAATGTGTATGTCCATTTAGTGTGTCTGTTTTAGTATGCAGGTGATAG
ACTAGAGAACAAGACCTCTGTCTCCGTAGCATCCTGGAGCAGTCTGAATGCCAGAAATGGATAACCGTTTTGCTAC
AGCATTGTAAATGCTTGTGTGCTTAGCCTCATTTCACCATCTACATGGCAGCCTCCATTGGCACAGACTTCTG
GTATGAATATCGAAGTCCAGTTCAAGAAAATTCAGTGATTGAATAAAAGCATCTGGGATGAATTCATTAGTGA
TGAGGCAGATGAAAAGACTTATAATGATGCACTTTTTCGATACAATGGCACAGTGGGATTGTGGAGACGGTGTAT
CACCATACCCCAAAACATGCATTGGTATAGCCCCACCAGAAAGGACAGAGTCATTTGATGTGGTCACAAAATGTGT
GAGTTTCACACTAACTGAGCAGTTTCATGGAGAAAATTTGTTGATCCCGGAAACCACAATAGCGGGATTGATCTCCT
TAGGACCTATCTTTGGCGTTGCCAGTTCCTTTTACCTTTTGTGAGTTTAGGTTGATGTGCTTTGGGGCTTTGAT
CGGACTTTGTGCTTGCATTGCGGAAGCTTATATCCACCATTGCCACGGGCATTCTCCATCTCCTTGCAGGTCT
GTGTACACTGGGCTCAGTAAGTTGTTAGTTGCTGGAATTGAAGTACTCCACCAGAACTAGAGTCCCTGACAA
TGTATCCGGTGAATTTGGATGGTCTTCTGCCTGGCTTGTGTCTCTGCTCCCTTACAGTTCATGGCTTCTGCTCT
CTTCATCTGGGCTGCTCACACCAACCGGAAAGAGTACACCTTAATGAAGGCATATCGTGTGGCATGAGCAAGAAA
CTGCCTGCTTTACAATTGCCATTTTTATTTTTTAAATAATACTGATATTTTCCCACTCTCAATTGTTTTTA
ATTTTTATTTGTGGATATACCATTTTATTATGAAAATCTATTTTATTTATACACATTCACCACTAAATACACACT
TAATACCACTAAAATTTATGTGGTTTACTTTAAGCGATGCCATCTTCAAATAAACTAATCTAGGTCTAGACAGA
AAGAAATGGATAGAGACTTGACACAAATTTATGAAAGAAAATTTGGGAGTAGGAATGTGACCGAAAACAAGTTGTG
CTAATGTCTGTTAGACTTTTCAGTAAAACTAAAGTAACTGTATCTGTTCAACTAAAACTCTATATTAGTTTCTT
TGGGAAACCTCTCATCGTCAAACTTTATGTTCACTTTGCTGTTGTAGATAGCCAGTCAACCAGCAGTATTAGTG
CTGTTTTCAAAGATTTAAGCTCTATAAAATTTGGGAAATTATCTAAGATCATTTTCCCTAAGCATTGACACATAGC
TTCATCTGAGGTGAGATATGGCAGCTGTTTGTATCTGCACTGTGTCTGTCTACAAAAGTGAAAAATACAGTGTT
TACTTGAAATTTTAACTTTGTAAGTGAAGAATTCAGTTCAGCCGGGCGAGGATTAGTATTATTTTAACTCTC
CGTAAGATTTTCAGTACCACCAAATGTTTTGGATTTTTTTCTTTCTCTTCACATACCAGGGTTATTAAGAGT
GTGCTTTCTTTTACATTATATTACAGTTACAAGGTAAATTCCTCAACTGCTATTTATTTATTCCAGCCCAGTA
CTATAAAGAACGTTTACCATAATGACCTCCAGAGCTGGGAAACCTACCACAAGATCTAAAGTTCTGGCTGTCC
ATTAACCTCCAATATGGTCTTTATTTCTTGTGTAATATGATGTGCCTTTCTTGCCTAAATCCCTTCTGGTG
TGTATCAACATTATTTAATGTCTTCTAATTCAGTCATTTTTTTATAAGTATGTCTATAAACATTGAACTTTAAAA
AACTTATTTATTTATTCCACTACTGTAGCAATTGACAGATTAAAAAATGTAACCTCATAATTTCTTACCATAAC
CTCAATGTCTTTTTTAAAAAATAAAATTAATAAGAGAGAAA

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FIGURE 2152

MDNRFATAFVIACVLSLISTIYMAASIGTDFWYEYRSPVQENSSDLNKSIDWDEFISDEADEKTYNDALFRYNGTV
GLWRRCIITIPKNMHWYSPPERTESFDVVTKCVSFTLTEQFMEKFVDPGNHNSGIDLLRXYLWRCQFLLPFVSLGL
MCFGALIGLCACICRSLYPTIATGILHLLAGLCTLGSVSCYVAGIELLHQKLELPDNVSGEFGWSFCLACVSAPL
QFMASALFIWAAHTNRKEYTLMKAYRVA

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FIGURE 2153

CTAGTTCTAGATCCGGCGAGTAGCTGGCGGTCCCGGGTCTGCTGGTTAGTGTGCTCTGAGGGAGGGTCCGAGCC
AGCCGCTGTTTTGCGGAGGAGCCCTCAGGCCGTAGTAAGCATTAAATAATGCTCTTTCATCTTTGAGTGGATCTA
CAATGGCTTCAGCAGTGTGCTCCAGTTCCTAGGACTGTACAAGAAATCTGGAAAACCTTGATTCTTAGGTTTGGA
TAATGCAGGCAAAACCACTCTTCTTCACATGCTCAAAGATGACAGATTGGGCCAACATGTTCCAACACTACATCC
GACATCAGAAGAGCTAACAATTGCTGGAATGACCTTTACAACCTTTTGATCTTGGTGGGCACGAGCAAGCACGTCG
CGTTTGAAAAAATTATCTCCAGCAATTAATGGGATTGCTTTCTGGTGGACTGTGCAGATCATTCTCGCCTCGT
GGAATCCAAAGTTGAGCTTAATGCTTTAATGACTGATGAAACAATATCCAATGTGCCAATCCTTATCTTGGGTAA
CAAAATGACAGAACAGATGCAATCAGTGAAGAAAACTCCGTGAGATATTGGGCTTTATGGACAGACCACAGG
AAAGGGGAATGTGACCTGAAGGAGCTGAATGCTCGCCCCATGGAAGTGTTTCATGTGCAGTGTGCTCAAGAGGCA
AGGTTACGGCGAGGGTTTCCGCTGGCTCTCCAGTATATTGACTGATGTTTGACGGTGAAAATAAAAGAGTTTT
ACTTCTCTGGACTGATCCTATTACAGCTTCCTCATGAACCTTTCTAATAGAACAAGGAAAGCTCTCCAACCATG
TCTGGCTTGAGAAGCCAGAGTCTCTGTCAACTCTCTCATTGCCAGTGGTGACATGTGCTCTTCTCCACACTG
TTGGGAGGTAATGCTGCCCCACGTGCTGGTGCAGGTGAGTATCCTGGGACTTGGAGCTGGCAGGATTGCGGGG
TAAAGCTGTATGCCATCATGGGACCTGAAAAGAAAAACACGTCTCACCAGTGTGGTTGATTCAAAAGAAAGTG
ATTCTATTTTTTAAAGAAAGCGTTGTTAATGTAATGGTATCCCTCCTAATTTTTTGAGTTCACAATTTACTTGG
TCCAGAGTTTTCTATTCTTTTTTTTTTTTTTAACTAATGAATGACATTTAGATACTTCATAAAATTATGAACAGAT
ATGGAGGCCAGAGCTCATTGGGTAACTTACTCCTGCTGAGTTAGCAGGTGGTGAGAGAAGCTCCCTGAGCT
CACCTGTCTCTGACTGCCTTGGAGTAGGTGGCATAACCTGTGCACAGAGAACTAGAAAAGGGGCAGAACCC
GGCCTTGCACTGTGTCAGGTTCCTACTGTGGTAAAGCTAGGTTTCTCCTCATCAAGGAATGTGTAGCAGATTGT
TCACGTGGAGGAGTTAATTATAGAATGGGTTATTGTTGTTATTCTTACTCATGAAGTTACAGATTTTAGCCAGT
CTTTGCTTTTATACTTTTGTGAAATTTAATTTCTCTCTATAGCACCTTCCTTTTTCGTTTTTCAGTTATCAAAAGT
GACTTTGACCTCATAAAAGAGTTGAGAACATCTCTCGTGTACATACTGCAGGTGCATCAGTTACTTTTGCACAG
ATTCTGGGGGACATTTTTCTGAATAGGAAGACAGGACAAAGTTAACAGCTTAAGGGCTCTTAATTCTGTGAGTTG
AGGACTTAAAGTATTGTAGCATTGTGTTGGATCCATGAAAATGTATTAGTGGGCTTTAAATTTCCATTGTC
AGAATTTGGTCTCTCAGGCTGTTTGGGAGCTCTTTTTTTTACATTTTTTCTCCTTTGACACCTATTTTATTGGTG
TTTAAAGTAAAGGTTAATCTGTAGCTTTTCCAGGTTTTTTTTTTTTTTTTTTTGGATGAAATTGCTTTCTC
CATTGCAGAAATAAGCTAGGGAACACTAACCCAAAACTTTCTGTAGAGCTGTTCTTTGGAGGCAGCATCACT
TATTGGCAGTAAAGACTCAGTATAAAAGCACAGCATCCCTACTTGGGTGATGGGGATTAATTTTATAGCATTCC
ATTTTCTAGTGCCACATGTGAAATTGGATTTTGATGATCTTAATCTATATTCTACCTTATAATAAAAGATCAA
AAGATATATCTCCTATGAACAGATTGGAGATAGGAGATGAAAAGTTGGGAGGATGTCTTTATCTAATGTGAGGG
TAGGGAATGTGGATAACATTACTGGGGTGAAGGAGGCATTGTTCTTTAGTTGGAGTTCTCATTTTTATTCTCC
AGTACTGACTTGTGGGAAAGCATACTTTTCACTGCCAGGTACTGAATGCAGAGGCTCAGTGAAGTATATATGT
GGGAAGTGCATGCATTTCTGTTTATTAGCAACATAGCTGGATTAAGACAAAGTTGTTGGTTTGAAAGGGGTTAA
AGCCTTAAGTGAACAAATCTAGCTAACAGTGAATGAAGTGGTAAATACTTGCATATTTTTAATTTCTTTGG
TTAAAGGTCCCCATACTTCTCTGTTCCGAGACATGAGAAGTATGATTACTTCAGTGTTAGTTTCTTAATTTTT
TTTTTCCCCTATTTGTCCTTGTCACTTTGTTGCAAGCTAGAAATCTGTGGTTATACATAGGCAGCTCTTTGT
GAAAGTGGTTTATTCCACTGGAGAAAGGGATTGAAAATCAGTTAGAACCAATGTATTTCTTGGCCACGGAACA
CTATTCCTATAAGATAGCTGAAAGAAGCTGCTGTGAGGAGCTCAGCTCCAAACACAGGATCAGCACCTTGTATAG
GAATTCCTATGAATTATGACTTCTCATTCTGTTTTATCAGAGTGCATATATGTCCTACTTCAGGAAAAGTAAAC
AGTCATTTACGAAAGAAAGTCAATCTGTATCCTAAGCATTTTAATAAAAAGTTAAAAACAAAAA
AAA

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FIGURE 2154

MSFIFEWIYNGFSSVLQFLGLYKKSGKLVFLGLDNAGKTTLLHMLKDDRLGQHVPTLHPTSEELTIAGMTFTTFD
LGGHEQARRVWKNYLPAINGIVFLVDCADHSRLVESKVELNALMTDETISNVPILILGNKIDRTDAISEEKLREI
FGLYGQTTGKGNVTLKELNARPMEVFMCSVLKRQGYGEGFRWLSQYID

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FIGURE 2155

TAGGGCGGTGCGCTAATTCGGCACGAGGGCGCTCACGTATGCCGGCGGTCA GTGGTCCAGGTCCCTTATTCTGCC
TTCTCCTCCTGCTCCTGGACCCCCACAGCCCTGAGACGGGGTGCTCCTCTACGCAGGTTTGAGTACAAGCTCA
GCTTCAAAGGCCCAAGGCTGGCATTGCCTGGGGCTGGAATACCCTTCTGGAGCCATCATGGAGACGCCATCCTGG
GCTTGGAGGAAGTGCGGCTGACGCCATCCATGAGGAACCGGAGTGGCGCCGTGTGGAGCAGGGCCTCTGTCCCCCT
TCTCTGCCTGGGAAGTAGAGGTGCAATGAGGGTGACGGGACTGGGGCGCCGGGGAGCCCCACGGCATGGCCGTGT
GGTACACCCGGGGCAGGGGCCATGTAGGCTCTGTCTTGGGGGGCTGGCTTCGTGGGACGGCATCGGGATCTTCT
TTGACTCTCCGGCAGAGGATACTCAGGACAGTCTGCCATCCGTGTGTCTGGCCAGCGACGGGCACATCCCCCTGT
AGCAGCCTGGGGATGGAGCTAGCCAAGGGCTGGGCTCCTGTCAATTGGGACTTCCGGAACCGGCCACACCCCTTCA
GAGCAGCGATCACCTACTGGGGGCAGAGGCTGCGCATGTCTTGAACAGTGGCCTCACTCCAGTGATCCAGGTG
AGTTCTGTGTGGATGTGGGGCCCCCTGCTTTTGGTCCCTGGAGGTTTCTTTGGGGTCTCAGCAGCCACCGGCACCC
TGGCAGATGATCATGATGTCTCTTCTGACCTTACGCCTGAGTGAGCCCAGCCCAGAGGTTCCCCCTCAGC
CCTTCTGGAGATGCAGCAGCTCCGCCTGGCGAGGCAGCTGGAAGGGCTGTGGGCAAGGCTGGGCTTGGGCACCA
GGGAGGATGTAAC TCCAAAATCAGACTCTGAAGCTCAAGGAGAAGGGGAAAGGCTCTTTGACCTGGAGGAGACGC
TGGGCAGACACCGCCGATCCTGCAGGCTCTGCGGGGTCTCTCCAAGCAGCTGGCCCAGGCTGAGAGACAATGGA
AGAAGCAGCTGGGGCCCCCAGGCCAAGCCAGGCCTGACGGAGGCTGGGCCCTGGATGCTTCTGCCAGATTCCAT
CCACCCAGGGAGGGGTGGCCACCTCTCCATGTCACTCAATAAGGACTCTGCCAAGGTCGGTGCCCTGCTCCATG
GACAGTGGACTCTGCTCCAGGCCCTGCAAGAGATGAGGGATGCAGCTGTCCGCATGGCTGCAGAAGCCCAGGTCT
CCTACCTGCCTGTGGGCATTGAGCATCATTCTTAGAGCTGGACCACATCCTGGGCCTCCTGCAGGAGGAGCTTC
GGGGCCCCGGCGAAGGCAGCAGCCAAGGCCCCCCGCCCCACCTGGCCAGCCCCCAAGGGCCTCCTCGTGCCTGCAGC
CTGGCATCTTCTGTTCTACCTCCTCATTGAGACTGTAGGCTTCTTCGGCTACGTGCACTTCAGGCAGGAGCTGA
ACAAGAGCCTTCAGGAGTGTCTGTCCACAGGCAGCCTTCTCTGGGTCTGCACCACACACCCCCAGGGCCCTGG
GGATTCTGAGGAGGCAGCCTCTCCCTGCCAGCATGCCTGCCAGCCACCTCAGAGCCTGCTTTGCATCACTGGG
AAGCAGGCAGTGTCTTGGGTGGGGGCTTGGTCAGTATCCTCTCCGTCTGGGTGCCAGCTCCACGCACACCTGA
GCTTTCGGCATGCTCCACCTCGTTAAAGGTGATTTCCTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

A

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FIGURE 2156

MPAVSGPGPLFCLLLLLLDPHSPETGCPPLRRFEYKLSFKGPRALPGAGIPFWSHHGDAILGLEEVRLTPSMRN
RSGAVWSRASVPFSAWEVEVQMRVTGLGRRGAHGMVWYTRGRGHVGSVLGGLASWDGIGIFFDSPAEDTQDSPA
IRVLASDGHIPSEQPGDGASQGLGSCHWDFRNRPHPFRRARITYWGQRLRMSLNGLTPSDPGEFCVDVGPLLLVP
GGFFGVSAATGTLADDHDVLSFLTFSLSEPSPEVPPQPFLEMQQLRLARQLEGLWARLGLGTREDVTPKSDSEAQ
GGERLFDLEETLGRHRRILQALRGLSKQLAQAEQWKKQLGPPGQARPDGGWALDASCQIPSTPGRGGHLSMSL
NKDSAKVGALLHGQWILLQALQEMRDAAVRMAAEQVSYLPVGGIEHHFLELDHILGLLQEELRGPAKAAAKAPRP
PGQPPRASSCLQPGIFLYLLIQTVGFFGYVHFRQELNKSLECLSTGSLPLGPAPHTPRALGILRRQPLPASMP
A

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FIGURE 2157

AACAACTGCACCCACTGAACTCCGCAGCTAGCATCCAAATCAGCCCTTGAGATTTGAGGCCTTGGAGACTCAGG
AGTTTTGAGAGCAAAATGACAAACACCCAGAAATTCAGTAAATGGGACTTTCCTGGCAGAGCCAATGAAAGGCCCT
ATTGCTATGCAATCTGGTCCAAAACCACTCTTCAGGAGGATGTCTTCACTGGTGGGCCCCACGCAAAGCTTCTTC
ATGAGGGAATCTAAGACTTTGGGGGCTGTCCAGATTATGAATGGGCTCTTCCACATTGCCCTGGGGGGTCTTCTG
ATGATCCCAGCAGGGATCTATGCACCCATCTGTGTGACTGTGTGGTACCCTCTCTGGGGAGGCATTATGTATATT
ATTTCCGGATCACTCCTGGCAGCAACGGAGAAAACTCCAGGAAGTGTGGTCAAAGGAAAAATGATAATGAAT
TCATTGAGCCTCTTTGCTGCCATTTCTGGAATGATTCTTTCAATCATGGACATACTTAATATTTAAATTTCCCAT
TTTTTAAAAATGGAGAGTCTGAATTTTATTAGAGCTCACACACCATATATTAACATATACAACGTGAACCAGCT
AATCCCTCTGAGAAAACTCCCCATCTACCCAATACTGTTACAGCATAACAATCTCTGTTCTTGGGCATTTTGTCA
GTGATGCTGATCTTTGCCTTCTTCCAGGAACCTTGTAATAGCTGGCATCGTTGAGAATGAATGGAAAAGAACGTGC
TCCAGACCCAAATCTAACATAGTTCTCCTGTGACAGAGAAGAAAAAAGAACAGACTATTGAAATAAAGAAGAA
GTGGTTGGGCTAACTGAAACATCTTCCCAACCAAAGAAATGAAGAAGACATTGAAATTATTCCAATCCAAGAAGAG
GAAGAAGAAGAAACAGAGACGAACCTTCCAGAACCTCCCCAAGATCAGGAATCCTCACCAATAGAAAATGACAGC
TCTCCTTAAGTGATTCTTCTGTTTTCTGTTTCTTTTAAACATTAGTGTTCATAGCTTCCAAGAGACATGCT
GACTTTCATTTCTTGAGGTACTCTGCACATACGCACCACATCTCTATCTGGCCTTTCATGGAGTGACCATAGCT
CCTTCTCTCTTACATTGAATGTAGAGAATGTAGCCATTGTAGCAGCTTGTGTTGTCACGCTTCTTCTTTGAGCA
ACTTCTTACACTGAAGAAAGGCAGAATGAGTGCTTCAGAATGTGATTTCCTACTAACCTGTTCTTGGATAGGC
TTTTTAGTATAGTATTTTTTTTTTGTCATTTCTCCATCAGCAACCAGGGAGACTGCACCTGATGGAAGATATA
TGACTGCTTCATGACATTCCTAACTATCTTTTTTTTATTCCACATCTACGTTTTTGGTGGAGTCCCTTTTGCAT
CATTGTTTTAAGGATGATAAAAAAAATAACAACCTAGGGACAATACAGAACCCATTCCATTTATCTTTCTACAG
GGCTGACATTGTGGCACATTCTTAGAGTTACCACACCCCATGAGGGAAGCTCTAAATAGCCAACACCCATCTGTT
TTTTGTAAAAACAGCATAGCTT

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FIGURE 2158

MTTPRNSVNGTFLAEPKGPFIAMQSGPKPLFRMSSLVGPTQSFFMRESKTLGAVQIMNGLFHIALGGLLMIPAG
IYAPICVTWVYPLWGGIMYIISGSLLAATEKNSRKCLVKGKMIMNSLSLFAAISGMILSIMDILNIKISHFLKME
SLNFIRAHPTYINIYNCEPANPSEKNPSTQYCYSIQSLFLGILSVMLIFAFFQELVIAGIVENEWKRTCSRPKS
NIVLLSAEEKKEQTIEIKEEVVGLTETSSQPKNEEDIEIIPIQEEEEETETNFPEPPQDQESSPIENDSSP

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FIGURE 2159

CTTGAGAGGCTCTGGCTCTTGCTTCTTAGGCGGCCCCGAGGACGCCATGGCCGAGTGCCCCGACACTCGGGGAGGCA
GTCACCGACCACCCGGACCGCCTGTGGGCCTGGGAGAAGTTCGTGTATTTGGACGAGAAGCAGCACGCCTGGCTG
CCCTTAACCATCGAGATAAAGGATAGGTTACAGTTACGGGTGCTCTTGCGTCGGGAAGACGTCGTCCTGGGGAGG
CCTATGACCCCCACCCAGATAGGCCCAAGCCTGCTGCCTATCATGTGGCAGCTCTACCCTGATGGACGATACCGA
TCCTCAGACTCCAGTTTCTGGCGCTTAGTGTACCACATCAAGATTGACGGCGTGGAGGACATGCTTCTCGAGCTG
CTGCCAGATGACTTGATGTATGGTCTTGGCAGCACCTGTCTCCTTTACCCCCAGGGCCTGAGCCTGGCCAGCCTAC
AATGGGGATGTTGTGTTTCTGTTCACCTTCGTTTACTATGCCGTGTGCTTCTCCACCACGCTGGGGTCTGGGAGG
AATGGACAGACAGAGGATGAGCTCTACCCAGGGCCTGCAGGACCTGCCTGTAGCCCACTCTGCTCGCCTTAGCAC
TACCACTCCTGCCAAGGAGGATTCCATTTGGCAGAGCTTCTTCCAGGTGCCAGCTATACCTGTGCCTCGGCTTT
TCTCAGCTGGATGATGGTCTTCAGCCTCTTTCTGTCCCTTCTGTCCCTCACAGCACTAGTATTTTCATGTTGCACA
CCCCTCAGCTCCGTGAACCTGTGAGAACACAGCCGATTACCTGAGCAGGACCTCTGAAACCCTGGACCAGTGG
TCTCACATGGTGCTACGCCCTGCATGTAAACACGCCTGCAAACGCTGCCTGCCGGTAAACACGCCTGCAAACGCTG
CCTGCCCGTAAACACGCCTGCAAACGCTGCCTGCCACACAGGTTACGTGCAGCTCAAGGAAAGGCCTGAAAGG
AGCCCTTATCTGTGCTCAGGACTCAGAAGCCTCTGGGTGAGTGGTCCACATCCCGGGACGCAGCAGGAGGCCAGG
CCGGCGAGCCCTGTGGATGAGCCCTCAGAACCCTTGGCTTGCCACGTTGAAAAGGGATAGAGGTTGGGTTTCCC
CCCTTTATAGATGGTCACGCACCTGGGTGTTACAAAGTTGTATGTGGCATGAATACTTTTTGTAATGATTGATTA
AATGCAAGATAGTTTATCTAACTTCGTGCGCAATCAGCTTCTATCCTTGACTTAGATTCTGGTGGAGAGAAGTGA
GAATAGGCAGCCCCCAATAAAAAATATTCATGGAAAAAAAAAAAAAA

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FIGURE 2160

MAECPTLGEAVTDHPDRLWAWKFFVYLDEKQHAWLPLTIEIKDRLQLRVLLRREDVVLGRPMPTPTQIGPSLLPIM
WQLYPDGRYRSSDSSFWRVLVYHIKIDGVEDMLLELLPDD

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FIGURE 2161A

GGCACTGTGTTACCAGCAGAGAGACAGGGCAAGCAGAATGTGCCTGTATGGACCTTTGCAAACGTCACCTACAAAC
CTGTGTGTGGATCTGACGGAGAATTCTATGAAAACCACTGTGAAGTGCACCGAGCTGCTTGCTGAAAAACAAA
AGATTACCATTGTTTCAATGAAGACTGCTTCTTTAAAGGAGATAAGTGAAGACTACTGAATGCAGCAAGATGA
AAAAATATGCTATTAGATTTACAAAATCAAAGATATATTATGCAAGAAAATGAAAATCCTAATGGCGACGACATAT
CTCGGAAGAAGCTATTGGTGGATCAAATGTTTAAATATTTTGTATGCAGACAGTAATGACTTGTAGATATTAATGA
ACTAACTCAGGTGATAAAACAGGAAGAACTTGGCAAGGATCTCTTTGATTGTACTTTGTATGTTCTATTGAAATA
TGATGATTTTTAATGCTGACAAGCACCTGGCTCTTGAAGAATTTTATAGAGCATTCCAAGTGATCCAGTTGAGTCT
GCCAGAAGATCAGAACTAAGCATCACTGCAGCAACTGTGGGACAAAGTGCTGTTCTGAGCTGTGCCATTCAAGG
AACCTTGAGACCTCCCATTTATCTGGAAGGAACAATATTATTCTAAATAATTTAGGTTTGGAGACATCAATGA
CTTTGGAGATGATGGGTCTTGTATATTACTAAGGTTACCACAACCTCACGTTGGCAATTACACCTGCTATGCAGA
TGGCTATGAACAAGTCTATCAGACTCACATCTTCCAAGTGAATGTTTCTCCAGTCATCCGGGTGTATCCAGAGAG
TCAGGCTAGAGAGCCTGGGGTAACTGCCAGTCTTAGGTGCCATGCAGAGGGCATAACCAAGCCTCAGCTTGGCTG
GTTGAAGAATGGAATTGATATTACACCAAAGCTTTTCAAACAACCTCACGCTTCAAGCAAATGGCAGTGAGGTTCA
CATAAGCAATGTGCGCTATGAAGATACTGGAGCATACTTGTATCGCAAAGAATGAAGCAGGAGTGATGAAGA
CATCTCTTCTCTTTTTGTGAAGACTCTGTAGAAAGACCTAGCTAACATATTATGGAGAGAAGAAGGTCTGGG
AATTGGGAACATGTTCTATGTTTTTATGAAGATGGAATCAAAGTGATACAACCCATAGAATGTGAATTTACAGAG
GCACATTAAGCCTAGTGAAGAGCTCCTTGGATTTCAGGATGAAGTCTGTCCCATAGCTGAGGGAGATGAAGTTCA
GAGGTGTGTGTGGGCATCAGCTGTTAATGTCAAAGACAAGTTCATTTATGTTGCACAGCCAACCTTTGGACAGAGT
CCTTATTGTGTATGTGAGTCCCAAAAAGTTGTTTCAAGGAGTGAAGTCTGTCCCATAGCTGAGGGAGATGAAGTTCA
TGACAAATCAGATGATCAGGTCTGGGTGCTAAGCTGGGGTACCTTGGAGAAGACATCACCACACTACAGGTAAT
TACCCTGGCCAGTGGGAATGTGCCTCACCACAGATCCACACCCAACAGTGGGAAAGCAATTTGACAGAGTGGA
TGATTTTTTTCATTCCCACCACAACACTCATTATCACCATATGAGGTTTGGATTTATCTTCATAAAGATGAAGC
TGCACTACAAAAAATTGATCTTGAAACCATGTCATACATCAAGACAATTAAGTGAAGGACTATAAGTGCCTTCC
TCAGTCATTGGCATATACACTTGGGAGGCTACTACTTTCATTGGCTGCAAACCTGACAGCACCGGAGCAGTTTC
CCCACAGGTCATGGTGGACGGTGTAACTGACTCAGTCATTGGGTCAATAGTGATGTGACGGGCACTCCATATGT
CTCTCCAGATGGCCACTACCTTGTGAGCATTAAATGATGTGAAGGTCTTGTAAAGGTTCAAGTACATTACCATCAG
AGGAGAAATACAGGAGGCTTTTGATATTTACACAATCTGCACATATCTGATCTGGCATTTCACCATCCTTTAC
TGAAGCCCACCAATATAACATCTACGGTAGTTCAAGCACACAACCTGATGTGCTCTTTGTGGAGCTCTCTTCTGG
GAAGGTCAAGATGATAAAGAGTCTCAAGGAACCACTCAAGGCAGAAGAATGGCCTTGAACAGGAAAAACAGGCA
AATCCAGGACAGTGGCTTGTGTTGGTCAATACCTGATGACACCTTCCAAGGACTCTCTCTTCATCCTAGATGGACG
ACTCAATAAATTAACTGTGAGATCACTGAAGTTGAAAAAGGAAATACAGTCATTTGGGTTGGAGATGCCTAAAA
ACCCTACGATACAATTATTGAATGAAGCGTTTTACAATACATTGCACTTAATCCATTGTTTAAATTTACAACCTTA
ACTTTCCAAGTTTATATCCTAGTCAAACAAAATTTACTTGGTTGGTCCAAATAAAATAAATTGTTTTTACTAAG
TGACTAAGACATACACAATTAATTATATTGGTTAATTAGAAATACTCAGCACAATATTTAATGAGAAATCAGATC
AGTCACAAGAATCAAATATGTAAATATGCTTTAAACAATAAAGTAGGATTTAAATCATTTAAAAAACTAACTG
CAGGGAATTTAGATGACATAAAGCATTATTTTCAATTTGAGGGTAGTTTATTCTTTTTCTGTCTCTTTTGGTAT
GATTAAACAAGAAATACAAGGTGTTGTGGAACCTTAAATTTCTTAATCAAATATTCGGTCCGTGCTCACTGTTT
ATAATATTTTGTGCTTGAAGGGAATGTCACAGGAGGAAAAGGAAGACTAAAGCCTGCATATAATGCTCTCAT
AACTATAAATCTCTTGTGTTAAAAACATCTCTTGCAACCAATCCTGTCTTCAGCCTTTTGTTTAACCTCAAT
GAACTACCAATTGAAGGCATAAGTTGGTCTTAGGTTGTATACAGGTGTCAAACCTCCACTTGACATTTACTGTGTA
ATCTGCAGCATGCTATAGAAAGTGGGGAGGAAGGGAGGAAAAATAATTACAGTCAAATATTTGCAATCTGTCTA
CTCATTTTGCTTTCAATCACTAGAGTGCAATTATGTTTTTAATGCAAGTTTGTCTGGGATGTCAACTGCCTACAGA
TGTTTATTACTAGCAGAAATAGATTATTTATTAATAGATTGTTTCTTTTCATATAGTCCAATGTTTCATCATCAGG
AACTTTCCGTTTTTAAAAAAGAAACATTACTTTTGTCTGCTAAAGTAAACCATATATAGGGAAATTAACACCTAGG
AAAAGAAAACCTGGCAAGTGAATTGATGAGGTATTAGTGCTTAGAAGAATTAGTAATATAAGTTGGGAATAAAGG
GGTAGCCCGACAGTGTAAGTAAAAATGTAGTACTCCATTGTTTTTGTCTATTTAAATATAATGTATCAAAAACCT
TTATTCTAAATTTCCACAAATGATTCCTTTTATCCATCTCTTGTAAATCCTAAAAGCATCTTCTCACTATGTGC
TGCAGTTTGAACCTAACGAATCCTCTACTTGAGACACTGTAGAAAAGTAAAAATGTTGCTTCTGTTTTGTTT

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FIGURE 2161B

TAAGAGGAAATGAGAAGGCCAGCAGAAGTAGATTAAACTAGAGAGCTGGTTTATTAAATAAGCAGATAATTAT
CCAGGCTTAAAGTAATAGCTTACATGTTTTGAAATCCTTGACTTATTTTGTTTTATTGTTGCAAAAAATG
TTAATGGGCTGTTGAAATGACCTCCATTTACTTAAGGTAATCCAATAAGGTCTTTTTTAAATATACAAATTTTAC
TCAAGTTTAAATTGTATAAACTGCTTAGAAACCTGAAATTTTATAGTGTGTAATATCTTATGTGTATATAGCAT
CCTGAGCTGTGTGATACAGTAGATTTCTTCTTAGCAGAAACATGCGAGGTAGACTTAATAACAACAAAAATCAG
CTTATGTTTCTACTTATTGAATCTGCTTTACTTTTTAGCAATTTTCTTCCTTGTGAACATGAACCATATAAAGTG
TCTGTGACTTAATGATTTTCATGTAAGTCTGTGCGATACATCCTTCTTTTGTAGCTTACACCATGTGGATGCTCTG
TCTGTAGACACTGCTTGATAAAAGGAGAATAAACCTCTTACATTTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 2162

GGATTTTTTAAAAATGAGTGACACCACATGGTTCTCTTCAAAGATGTAACTGCTAGGGTGTGGATGCAAGCTG
AAATCACCTTTAAGAAGCCCATGCCTACCAAGGTGGTTTTTCATGAGCCTATGCAAAAGTTTCTGGGACTGTGGGC
TTGTAGCCCTGGATGACATTACAATAACAATTGGGAAGCTGCTCATCTTCAGAGAACTTCCACCTCCACCTGGAG
AGTGTACTTTTCGAGCAAGATGAATGTACATTTACTCAGGAGAAAAGAAACCGGAGCAGCTGGCACAGGAGGAGGG
GAGAAACTCCCACTTCTACACAGGACCAAGGGAGATCACACTACTGGGGTAGGCTACTACATGTACATTGAGG
CCTCCCATATGGTGTATGGACAAAAAGCACGCCTCTTGTCAGGCCTCTGCGAGGAGTCTCTGAAAAACACTGCT
TGACCTTTTTTCTACCACATGTATGGAGGGGGCACTGGCCTGCTGAGTGTATCTGAAAAAGGAAGAAGACAGTG
AAGAGTCCCTCTTATGGAGGAGAAGAGGTGAACAGAGCATTTCTGGCTACGAGCAGTATTGAATACAGCTGTG
AGAGGCAACACCAGATAATTTTTGAAGCCATTTCGAGGAGTATCAATAAGAAGTGATATTGCCATTGATGATGTTA
AATTCAGGCAGGACCCTGTGGAGAAATGGAAGATACAACCTCAACAATCATCAGGATATTCTGAGGACTTAAATG
AAATTGAGTATTAAAGAAATGATCTGCATTGGATTTACTAGACGAAAACCATACTCTCTTCAATCAAAATGAAAA
CAAAGCAAATGAATACTGGACAGTCTTAACAATTTTATAAGTTATAAAATGACTTTAGAGCACCCCTCCTTCATTA
CTTTTGCAAAAACATACTGACTCAGGGCTCTTTTTTCTTTTGCATATGACAACTGTTACTAGAAATACAGGCT
ACTGGTTTTGCATAGATCATTCTCTTAATTTTGGTACCAGTTAAAAATACAAATGTACTATATTGTAGTCATTT
TAAAGTACACAAAGGGCACAATCAAATGAGATGCCTCATTTAAATCTGCATTGAGTGAATGTATTGGGAGAAA
AATAGGTCTTGCAGGTTTCCTTTTGAATTTTAAAGTATCATAAATATTTTTTAAAGTAAATAATACGGGGTGTGAGT
AATATCTGCAGAATGAATGCAGTCTTTCATGCTAATGAGTTAGTCTGAAAAATAAAGTCTTATTTTCTATGTTT
TATTCATAGAAATGGAGTATTAATTTTTTAATTTTTTACCATATGTGATAACAAAGGATCTTTCATGAATGTCCA
AGGGTAAGTCAAGTATTAATTAATGCTGTATTACAAGGCAATGCTACCTTCTTTATTTCCCTTTGAACTACCTTT
GAAGTCACTATGAGCAGATGGATAGAAATTTAACTTTTTTTGTAAAGCAAGCTTAAATGTTTATGTATACATA
CCCAGCAACTTTTATAAATGTGTTAAACAATTTTACTGATTTTATAATAAATATTTTGGTAAGATTTTGAATAA
TATGAATTCAGGCAGATATACTAACTGCTTTTATTTACTTGTGTTAGAAAATTGTATATATATGTTTGTGTATCC
TAACAGCTGCTATGAAATTATAAAATTACCTAATAAAAATAATTTGAAAATCTTAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 2163

MQAEITFKKPMPTKVVFMSLCKSFWDGCLVALDDITIQLGSCSSSEKLPPPPGECTFEQDECTFTQEKRRNRSSWH
RRRGETPTSYTGPKGDHTTGVGYYMYIEASHMVYGQKARLLSRPLRGVSGKHCLTFFYHMYGGGTGLLSVYLKKE
EDSEESLLWRRRGEQSISWLRALIEYSCERQHQIIFEAIRGVSIRSDIAIDDVKFQAGPCGEMEDTTQSSGYSE
DLNEIEY

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FIGURE 2164

TGGTGGCCGGAGGCATTACCATCCTACACCCCTTCATGGCTGCCTCCAGGCCCTTCTTCAGGGACATCGTTTTCT
ACATGGTGGCTGTGTTCTGACCTTCCTCATGCTCTTCCGTGGCAGGGTCACCTGGCATGGGCTCTGGGTTACC
TGGGCTTGATGTGTTCTATGTGGTCACTGTGATTCTCTGCACCTGGATCTACCAACGGCAACGGAGAGGATCTC
TGTTCTGCCCCATGCCAGTTACTCCAGAGATCCTCTCAGACTCCGAGGAGGACCGGGTATCTTCTAATACCAACA
GCTATGACTACGGTGATGAGTACCGGCCGCTGTTCTTCTACCAGGAGACCACGGCTCAGATCCTGGTCCGGGCCC
TCAATCCCCTGGATTACATGAAGTGGAGAAGGAAATCAGCATACTGGAAAGCCCTCAAGGTGTTCAAGCTGCCTG
TGGAGTTCTGCTGCTCCTCACAGTCCCCGTGCTGGACCCGGACAAGGATGACCAGAACTGGAAACGGCCCCCTCA
ACTGTCTGCACTGGTTATCAGCCCCCTGGTTGTGGTCTGACCCTGCAGTCGGGGACCTATGGTGTCTATGAGA
TAGCGGGCCTCGTTCCTGCTGGGTGCTGGTGGTATCGCAGGCACAGCCTTGGCTTCAGTGACCTTTTTTGCCA
CATCTGACAGCCAGCCCCCAGGCTTCACTGGCTCTTTGCTTTCTGCGGCTTTCTGACCAGCGCCCTGTGGATCA
ACGCGGCCGCCACAGAGGTGGTGAACATCTTGCCTGCTGGGTGCTGGTCTTCCGGCTGAGCAACACTGTGCTGG
GGCTCACGCTGCTGGCTGGGGGAACAGCATTGGAGATGCCTTCTCGGATTTACACTGGCTCGCCAGGGCTACC
CACGGATGGCGTTCTCCGCTGCTTTGGCGGCATCATCTTCAACATCCTCGTGGGTGTGGGGCTGGGCTGCCTGC
TCCAGATCTCCCGAAGCCACACAGAAGTGAAGCTGGAGCCAGACGGACTGCTGGTGTGGGTCTTGGCAGGCGCCC
TGGGGCTCAGCCTCGTCTTCTCCCTGGTCTCAGTCCATTGCAGTGCTTCCAGCTCAGCAGAGTCTATGGCTTCT
GCCTGCTCCTCTTCTACCTGAACCTTCTTGTGCTGGCCCTCCTCACTGAATTTGGAGTGATTACCTGAAAAGCA
TGTGACTGGAAGCCGCTTAGTGCTGTGGCCTCACTGCAGGCAGGAGCCCCGCCCTCTGCGGGGGAGGCCCAGG
GACCGGAGCATTCTGCAAGGCCCTTGTGGGCACGAGAGTGCAGGCCCTTGCTGCTGGAGATCTGAGGTCACTGCT
GTGAGCTGGGAGAACTGCTGTGTACCTCTTGTGCTGCCAGCACCAACAGCCTTGGCGTGGGGACCTTGAAACCTG
GCTTTGCTCTGGACAAAGGGTTCCAGAGAGAAGCTAGAAGTCCCCCTTGAATGACCCCGAGGCCCTCTGAGAA
GGGCTGGAGTTTGGGGGAAGGGGATGGCTGGATGTGCTCCAGGCCATGCTGGAGGTACCCCGAGGCACAGGCAC
TGCCCGTTCCCTTGCCTGGGCTTCAAGCCTTCTGGCACCTTCTCAGGACACAAGTGGCTGCCCAACCTGACTC
AGAGAATGAGGGTGGCTTGGACCCCTGGGAATCAGGCCGCCGAGGGCTGAGCTCCAGAGCCGCACCATCTGCCAC
AAACAGAATTCGAGACATACTTAATTTTGAATTTCTCCTTGCCACGTTAATAAAGCCAAAAGCAGCGGGTGCTAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 2165

MAASRPFFRDIVFYMVAVFLTFLMLFRGRVTLAWALGYLGLYVFYVVTVILCTWIYQRQRGSLFCMPVTPPEIL
SDSEEDRVSSNTNSYDYGDEYRPLEFFYQETTAQILVRALNPLDYMKWRRKSAYWKALKVFKLPVEFLLLLTVPVV
DPDKDDQNWKRLNCLHLVISPLVVVLTILQSGTYGVYEIGGLVPVWVVVVIAGTALASVTFEATSDSQPPRLHWL
FAFLGFLTALWINAAATEVVNLRSLGVVFRLSNTVLGLTLLAWGNSIGDAFSDFTLARQGYPRMAFSACFGGI
IFNILVGVLGCLLQISRSHTEVKLEPDGLLVWVLGALGLSLVFSLVSVPLQCFQLSRVYGFCLLLFYLNFLVV
ALLTEFGVIHLKSM

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FIGURE 2166A

AAGACAACGTCAGTACTAGCAGTTTCTGGAGCTACTTGCCAAAGGCTGAGTGTGAGCTGAGCCTGCCCCACCACCAAGA
TGATCCTGAGCTTGTGTTTTCAGCCTTGGGGGCCCCCTGGGCTGGGGGCTGCTGGGGGCTGAGGACACCAGCAAGG
GTACTAGCCTCTCTGATCTGCAGAGCTCCAGGACACCTGGGGTCTGGAAGGCAGAGGCTGAGGACACCAGCAAGG
ACCCCGTTGGACGTAAGTGGTGGCCCTACCCAATGTCCAAGCTGGTCACCTTACTAGCTCTTTGCAAAACAGAGA
AATTCCTCATCCACTCGCAGCAGCCGTGTCCGAGGGAGCTCCAGACTGCCAGAAAGTCAAAGTCAATGTACCGCA
TGGCCCAAGCCAGTGTACCAGGTCAAGCAGAAGGTGTGACCTCTTTGGCCTGGAGGTGCTGCCCTGGCTACA
CGGGCCCCAAGTGCAGCAGCACCAGATTCCATGGCAATCCCTGAGCCTGCAGATCCTGGTGACGCCACCAGGAAC
CTCAGGATGGACCAGTCAAGCTTCAAACCTGGCCACCTTGTGTCAGTGTCAATGAGGTTGAGGTGCAACAGGAAC
AGCAGGAACATCTGTGGGAGATCTCCAGAATGATGTGACCGGGTGGCAGACAGCCTGCCAGGCCTGTGGAAG
CCCTGCTGGTAACCTCACAGCTGCAGTGTGGAAGCAAATCAAACAGGGCAGGAGTTCCCTGATAGATCCTTGG
AGCAGGTGCTGCTACCCACGTGGACACCTTCTTACAAGTGCATTTAGCCCCATCTGGAGGAGCTTTAAACAAA
GCCTGCACAGCCTTACCAGGCCATAAGAAACCTGTCTCTTTCAGCTGGAGGCCAACCGCCAGGCCATCTCCAGAG
TCCAGGACAGTGGCGTGGCCAGGGCTGACTTCCAGGAGCTTGGTGCCAAATTTGAGGCCAAGGTCCAGGAGAACA
CTCAGAGAGTGGGTGAGTGCAGCAGGACGTGGAGGACCGCTGCAGCGCCAGCACTTTACCTGCACCGCTCGA
TCTCAGAGCTCCAAGCCGATGTGGACACCAAATTGAAGAGGCTGCACAAGGCTCAGGAGGCCCGAGGACCAATG
GCAGTCTGGTGTGGCAACGCCTGGGGCTGGGGCAAGGCCTGAGCCGGACAGCCTGCAGGCCAGGCTGGGCCAGC
TGCAGAGGAACCTCTCAGAGCTGCACATGACCACGGCCCGCAGGGAGGAGGAGTTGCAGTACACCTGGAGGACA
TGAGGGCCACCTGACCCGGCAGTGGATGAGATCAAGGAAGTGTACTCCGAATCGGACGAGACTTTTCGATCAGA
TTAGCAAGGTGGAGCGGCAGGTGGAGGAGTGCAGGTGAACACAGCGCGCTCCGTGAGCTGCGCGTGTATCCTGA
TGGAGAAGTCTCTGATCATGGAGGAGAACAAGGAGGAGGTGGAGCGGCAGCTCCTGGAGCTCAACCTCACGCTGC
AGCACCTGCAGGGTGGCCATGCCGACCTCATCAAGTACGTGAAGGACTGCAATTGCCAGAAGCTCTATTTAGACC
TGGACGTATCCGGGAGGGCCAGAGGGACGCCACGCGTGGCCTGGAGGAGACCCAGGTGAGCCTGGACGAGCGGC
GGCAGCTGGACGGCTCCTCCTGCAGGCCCTGCAGAACGCCGTGGACGCCGTGCTGCTGGCCGTGGACGCGCACA
AAGCGGAGGGCGAGCGGGCGGGCGGGCCACGTGCGGGCTCCGGAGCCAAGTGCAGGCGCTGGATGACGAGGTGG
GCGCGCTGAAGGCGGGCGGGCGGGCCAGGCGGCCACGAGGTGCGCCAGCTGCACAGCGCCTTCGCCGCCCTGCTGG
AGGACGCGCTGCGGCACGAGGCGGTGCTGGCCGCGCTCTTCGGGGAGGAGGTGCTGAGGAGATGTCTGAGCAGA
CGCCGGGACCGCTGCCCCCTGAGCTACGAGCAGATCCGCGTGGCCCTGCAGGACCGCGCTAGCGGGCTGCAGGAGC
AGGCGCTCGGCTGGGACGAGCTGGCCGCGGAGTGACGGCCCTGGAGCAGGCCTCGGAGCCCCCGCGCCGGCAG
AGCACCTGGAGCCCAGCCACGACGCGGGCGCGGAGGAGCCGCCACCACCGCCCTGGCCGGGCTGGCGCGGGAGC
TCCAGAGCCTGAGCAACGACGTCAAGAATGTGCGGCGGTGCTGCGAGGCCGAGGCCGGGGCGGGGCGCCCTCCC
TCAACGCTCCTTTGACGGCCTCCACAACGCACTCTTCGCCACTCAGCGCAGCTTGGAGCAGCACCAGCGGCTCT
TCCACAGCCTCTTTGGAACTTCCAAGGGCTCATGGAAGCCAACGTACGCTGGACCTGGGGAAGCTGCAGACCA
TGCTGAGCAGGAAAGGAAGAAGCAGCAGAAAGACCTGGAAGCTCCCCGGAAGAGGGACAAGAAGGAAGCGGAGC
CTTTGGTGGACATACGGGTACAGGGCCTGTGCCAGGTGCCTTGGGCGCGGCGCTCTGGGAGGCAGGATCCCCCTG
TGGCCTTCTATGCCAGCTTTTTCAGAAGGGACGGCTGCCCTGCAGACAGTGAAGTTCAACACCACATACATCAACA
TTGGCAGCAGCTACTTCCCTGAACATGGCTACTTCCGAGCCCCCTGAGCGTGGTGTCTACCTGTTTGCAGTGAGCG
TTGAATTTGGCCAGGGCCAGGCACCGGGCAGCTGGTGTGGAGGTACCATCGGACTCCAGTCTGTACCACTG
GGCAGGGGAGTGAAGCAGCAACGGTCTTTGCCATGGCTGAGCTGCAGAAGGTTGAGCGAGTATGTTTGGAGT
TAACCCAGGGATCAATAACAAAGAGAAGCCTGTGCGGCACTGCATTTGGGGGCTTCTGATGTTTAAAGACCTGAA
CCCCAGCCCCAATCTGATCAGACATCATGGAAGTCCGCGAGCTCTCCTCGGCCTGGGGCTCTGGCCAAGGATGGGC
TGGAGGTCAATCAGTTGGTCTGTCTCTTCCCTGGAAACCTTCTGCAAAGATGGTGTGGTGTACGTGGCTTCCCTG
TAACCACATGGGGCTTGGCCATTTCTCCATGATGAGAAGGACTGGAATGCTTCTCCGGGCAGGACATGGTCTTAG
GAAGCCTGAACCTTGGCTTGGCATGCCTTCTCAGACAGCAGGCGCTGGGCTCCAACCTTTCACCACACCCCTGTAT
TCTACAACCTTCTTTGGTGTGTTTGTCTCTCCTGTGGTGGAAACTTCTGTACAACACTTTAAACTTTTCTCTTGCT
TCCTCTTCTCTTCTCCTTATCGTATGATAGAAAGACATTCTTCCCCAGGAGGAATGTTTAAATGGAGGCAACA
TTTTGGCCAACATTGAAAGCACTAGAGGGCAATGGGATTAACCAACCTGCTTGGTCTCTATTAGTCAGTAATG
AAGACGACAGCCTGGCCAACCAAGGGAAGGAAATTAGTATCTTTAGTTTCAGTCATTCTTGTAGGATATGGTT
TAGCTGTGCCCCACCTAAATATCATCTTGAATTGTAATCCCTATAATCCCCACATCAAGGGAGAGATCAGGTG

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FIGURE 2166B

GAGGTAATTGGATCTTGGGGGCGGTTCCCCATGCTGTTCTTGTGATAGTTCTCACGAGATCTGATGATTTTATA
AGTTTGATAGTTCCTCCTGTGTTCAATTCCTTCCTGCCACCTTGTGAAGATGCCTTGTTCTCTTCACTGTCT
GCCATGATTGTAAGTTTCCTGAGGCCTCCCCAGCCATGTGGAACAGTGAGTCAATTAAACCTCTTTCCTTTATAA
ATT

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FIGURE 2167

MILSLLFSLGGPLGWGLLGAWAQASSTSLSDLQSSRTPGVWKAEEAEDTSKDPVGRNWCPYPMSKLVTLALCKTE
KFLIHSQQPCPQGAPDCQKVVMYRMAHKPVYQVKQVLTSLAWRCCPGYTGPNCHEHDSMAIPEPADPGDSHQE
PQDGPVSFKPGHLAAVINEVEVQQEQQEHLLGDLQNDVHRVADSLPGLWKALPGNLTAAVMEANQTGHEFPDRSL
EQVLLPHVDTFLLQVHFSPiWRSFNQSLHSLTQAIRNLSLDVEANRQAI SRVQDSAVARADFQELGAKFEAKVQEN
TQRVGQLRQDVEDRLHAQHFTLHRSISELQADVDTKLRLHKAQEAPGTNGSLVLATPGAGARPEPDSLQARLGQ
LQRNLSELHMTTARREEELQYTLEDMRATLTRHVDEIKELYSEDETDFDQISKVERQVEELQVNHTALRELRLVIL
MEKSLIMEENKEEVERQLELNLTLQHLQGGHADLIKYVKDCNCQKLYLDLDVIREGQRDATRALEETQVSLDER
RQLDGSSLQALQNAVDAVSLAVDAHKAEGERARAATSRLRSQVQALDDEVGALKAAAAEARHEVRQLHSAFAALL
EDALRHEAVLAALFGEEVLEEMSEQTPGPLPLSYEQIRVALQDAASGLQEQALGWDELAARVTALEQASEPPRPA
EHLEPSHDAGREEAATTALAGLARELQSLSDVKNVGRCCAEAGAGAASLNASLDGLHNALFATQRSLEQHQR
FHSILFGNFQGLMEANVSLDLGKLQTMLSRKGGKQKQDLEAPRKRDKEAEPLVDIRVTGPVPGALGAALWEAGSP
VAFYASFSEGTAAALQTVKFNTTYINIGSSYFPEHGYFRAPERGVYLFVSVFEFGPGPGTGQLVFGGHHRTFPVCTT
GQGSSTATVFAEALQGERVWFELTQGSITKRSLSGTAFGGFLMFKT

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FIGURE 2168

CCTGTCTCTCTTCGGGTCTCGGGCCCTTGGGCGCAGCGGGGCGCGGCCATGGCGAAGGCGAAGAAGGTCGGGGC
GCGAAGGAAGGCCTCCGGGGCGCCGGCGGGAGCGCGAGGGGGCCCGGCGAAGGCCAACTCCAATCCGTTTCGAGGT
GAAAGTTAACAGGCAGAAGTTCCAGATCCTGGGCCGGAAGACGCGCCACGACGTGGGACTGCCCGGGGTGTCTCG
CGCACGGGCCCTCAGGAAGCGTACACAGACTTTACTAAAAGAGTACAAAGAAAGGGATAAATCCAATGTATTAG
AGATAAACGCTTCGGAGAATACAACAGCAACATGAGCCCCGAGGAGAAGATGATGAAGAGGTTTGCTCTGGAACA
GCAGCGACATCATGAGAAAAAAGCATCTACAATCTAAATGAAGATGAAGAATTGACTCATTATGGCCAGTCTTT
GGCAGACATCGAGAAGCATAATGACATTGTGGACAGTGACAGCGATGCTGAGGATCGAGGAACGTTGTCTGCTGA
GCTGACTGCTGCCCCACTTTGGAGGAGGCGGTGGGCTCCTTCACAAGAAGACTCAACAGGAAGGCGAGGAGCGGGA
GAAACCGAAGTCCCGGAAAGAGCTGATTGAAGAGCTCATTGCCAAGTCAAAACAAGAGAAGAGGGAGAGACAAGC
TCAACGAGAAGATGCCCTCGAGCTCAGGAGAAGCTAGACCAAGACTGGAAAGAAATTAGACTCTCTGTCCCA
CAAACTCCCAAGTCAGAGAACAGAGACAAAAGGAAAAACCAAGCCCGATGCATATGACATGATGGTTCGCGA
GCTTGGCTTTGAAATGAAGGCGCAGCCCTCTAACAGGATGAAGACGGAGGCAGAATTGGCAAAGGAAGAGCAGGA
GCACCTCAGGAAGCTGGAGGCTGAGAGACTTCGAAGAATGCTTGAAAGGATGAGGATGAAAATGTTAAGAAACC
AAAACATATGTGACGAGATGATCTGAATGATGGCTTCGTGCTAGATAAAGATGACAGGCGTTTGCTTTCTACAA
AGATGGAAAGATGAATGTGAGGAAGATGTCCAGGAAGAGCAAAGCAAGGAAGCCAGTGACCCTGAGAGCAACGA
GGAAGAAGGTGACAGTTGAGGCGGGGAGGACACAGAGGAGAGCGACAGCCAGATAGCCACTTGACCTGGAATC
CAACGTGGAGAGTGAGGAAGAAAACGAGAAGCCAGCAAAAGAGCAGAGGCAGACTCCTGGGAAAGGGTTGATAAG
CGGCAAGGAAAGAGCTGGAAGGCTACCAGAGACGAGCTGCCCTACACGTTTCGACGCCCTGAATCCTATGAGGA
ACTGAGATCTCTGTTGTTAGGAAGATCGATGGAAGAGCAGCTTTTGGTGGTGGAGAGAATTGAGAAGTGAACCA
CCCGAGTCTCGCAGAAGGAAACAAAGCAAAATTAGAAAACTGTTTGGCTTCTTTTGGAAATACGTTGGCGATT
GGCTACAGATGACCCACCAGACCTCAGCTCATTGATAAGTTGGTTGTGCATTATATCATCTTTGCCAGATGTT
TCCTGAATCTGCAAGTGACGCTATCAAATTTGTTCTCCGAGATGCGATGCATGAGATGGAAGAAATGATTGAGAC
CAAAGGCCGGGCGGCATTGCCAGGGTTGGATGTGCTCATTATTTGAAATCACTGGGCTGCTATTTCCAATTC
CGACTTCTGGCACCCAGTGGTGACCCCTGCCCTCGTGTGCCTCAGTCAGCTGCTCACCAAGTGCCCCATCCTGTC
CCTCCAGGACGTGGTGAAGGGCCTGTTGCTGTGCTGCCTGTTCTGGAGTATGTGGCTTTGTCCCAGAGGTTTAT
ACCTGAGCTTATTAATTTTCTTCTTGGGATTCTTTACATAGCAACTCCAAACAAAGCAAGCCAAGGTTCCACTCT
GGTGCACCCCTTTAGAGCGCTTGGGAAGAACTCGGAAGTCTCGTGGTGTCTGCTAGAGAGGATGTGGCCACGTG
GCAGCAGAGCAGCCTCTCCCTCCGCTGGGCGAGTAGACTGAGGGCCCCAACTTCGACAGAGGCCAATCACATCCG
ACTGTCTGCTGGCTGTGGGCCTGGCCCTGCTGAAGCGCTGCGTGCTCATGTACGGGTCCCTGCCATCCTTCCA
CGCCATCATGGGGCTCTCCAAGCCCTCCTCACGGATCACCTGGCGGACTGCAGCCACCCGAGGAGCTCCAGGA
GCTGTGTCAGAGCACACTGACCGAAATGGAAGCCAGAAGCAGCTCTGCCGGCCGCTGACCTGTGAGAAGAGCAA
GCCTGTCCCCTGAAGCTTTTACACCCCGGCTGGTCAAAGTCTCGAGTTTGAAGAAAACAGGCAGTAGTAA
GGAGGAACAGGAAAGGAAGAGGCTGATCCACAAACACAAGCGTGAATTTAAAGGGGCCGTTTCAGAAATCCGCAA
GGACAATCAGTTTCTGGCGAGGATGCAACTCTCAGAAATCATGGAACGGGATGCGGAAAGAAAGCGGAAAGTAAA
GCAGCTTTTTAACAGCCTGGCTACACAGGAAGGCGAATGGAAGGCTCTGAAGAGGAAAAAGTTCAAAAAATAAT
TACATTTTATAAATAAGCTCCCCCACCCTGCTGCTGCGGTTTTGTTTTCTGTAAAACGTCACCTGATGAAATAG
AATGAATCCTGAAATGCACCTCTGGGATCGGGAATGGTCTGTGTGTTATCAGCTGCGACTGGTTCACTGCGTCTG
GACAAGCCTCATGGGACTGGGGATTCTGGCCAGTGTAATTTCTGTCAACCACGGACGTTTGCTTCATGTGTAG
AATTTACTGTTGTTATGCAAATTATATTTCAATTATAA

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FIGURE 2169

AGAAGAAGCTGGCCAAGGATATGGGAGCAACCACCAATGGACCAGAAGTCTCTCTGGGCAGGTGTAGTGGTCTTGCTGCTTCTCCAGGGAGGATCTGCCTACAACTGGTTTGCTACTTTACCAACTGGTCCCAGGACCGGCAGGAACCAGGAAAATTCACCCCTGAGAATATTGACCCCTTCCTATGCTCTCATCTCATCTATTCAATTCGCCAGCATCGAAAACAACAAGGTTATCATCAAGGACAAGAGTGAAGTGATGCTCTACCAGACCATCAACAGTCTCAAAACCAAGAATCCCAAACTGAAAATTCTCTTGTCATTGGAGGGTACCTGTTTGTTCCAAAGGGTCCACCCTATGGTGGATTCTTCTACATCACGCTTGGAATTCATTAACCTCATAATCCTGTTTCTGAGGAACCATAACTTTGATGGACTGGATGTAAGCTGGATCTACCCAGATCAGAAAGAAAACACTCATTTCCTGCTGATTTCATGAGTTAGCAGAAGCCTTTCAGAAGGACTTCACAAAATCCACCAAGGAAAGGCTTCTCTTGACTGCGGGCGTATCTGCAGGGAGGCAAATGATTGATAACAGCTATCAAGTTGAGAACTGGCAAAAGATCTGGATTTCATCAACCTCCTGTCCTTTGACTTCCATGGGTCTTGGGAAAAGCCCTTATCACTGGCCACAACAGCCCTCTGAGCAAGGGGTGGCAGGACAGAGGGCCAAGCTCCTACTACAATGTGGAATATGCTGTGGGGTACTGGATACATAAGGGAATGCCATCAGAGAAGGTGGTCATGGGCATCCCCACATATGGGCACTCCTTCACACTGGCCTCTGCAGAAACCACCGTGGGGGCCCTGCCTCTGGCCCTGGAGCTGCTGGACCCATCACAGAGTCTTCAGGCTTCCTGGCCTATTATGAGATCTGCCAGTTCCTGAAAGGAGCCAAGATCACGCGCCTCCAGGATCAGCAGGTTCCCTACGCAGTCAAGGGGAACCAGTGGGTGGGCTATGATGATGTGAAGAGTATGGAGACCAAGGTTCAAGTTCTTAAAGAATTTAAACCTGGGAGGAGCCATGATCTGGTCTATTGACATGGATGACTTCACTGGCAATCCTGCAACCAGGGCCCTTACCCTCTTGTCCTCAAGCAGTCAAGAGAAGCCTTGGCTCCTTGTGAAGGATTAATTACAGAGAAGCAGGCAAGATGACCTTGCTGCCTGGGGCCTGCTCTCTCCCAGGAATTCTCATGTGGGATTCCCTTGCCAGGCTGGCCTTTGGATCTCTCTTCCAAGCCTTTCTGACTTCCTCTTAGATCATAGATTGGACCTGGTTTTGTTTTCTGCAGCTGTTGACTTGTTGCCCTGAAGTACAATAAAAAAATTCATTTGCTCCAGTA

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FIGURE 2170

MDQKSLWAGVVVLLLLQGGSAYKLVCYFTNWSQDRQEPGKFTPENIDPFLCSHLIYSFASIENNKVIIKDKSEVM
LYQTINSLKTKNPKLKILLSIGGYLFGSKGFHPMVSSTSRLEFINSIILFLRNHNFDGLDVSWIYPDQKENTHF
TVLIHELAEAFQKDFTKSTKERLLLTAGVSAGRQMIDNSYQVEKLAKDLDFINLLSFDFHGSWEKPLITGHNSPL
SKGWQDRGPSSYYNVEYAVGYWIHKGMPSEKVVMGIPTYGHSFTLASAETTVGAPASGPGAAGPITESSGFLAYY
EICQFLKGAKITRLQDQQVPYAVKGNQWVGYYDDVKSMETKVQFLKNLNLGGAMIWSIDMDDFTGKSCNQGPYPLV
QAVKRSLGSL

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FIGURE 2171A

AGAGTCCTGGATGAGACGGCTCGAGAGCGTGCCCGCTGCAGATAGAGATTGGGAAGCTGAGGGCAGAGTTGGAC
GAGGTCAACAAGAGCGCCAAGAAGAGGGAGGGCGAGCTTACGGTGGCCAGGGCCGTGTGAAGGACCTGGAGTCC
CTGTTCCACCGGAGCGAGGTGGAGCTGGCAGCTGCCCTCAGCGACAAGCGCGGCTGGAGAGTGACGTGGCTGAG
CTGCGGGCCAGCTGGCCAAGGCCGAGGACGGTCATGCAGTGGCCAAAAAGCAGCTGGAGAAGGAGACGCTGATG
CGTGTGGACCTGGAGAACCCTGCCAGAGCCTGCAGGAGGAGCTGGACTTCCGGAAGAGTGTGTTGAGGAGGAG
GTGCGGGAGACGCGGCGGCGGACGAGCGGCGCTGGTGGAGGTGGACAGCAGCCGCGCAGCAGGAGTACGACTTC
AAGATGGCACAGGCGCTGGAGGAGCTGCGGAGCCAGCAGCAGCAGCAAGTGGGCTCTACAAGCTGGAGCTGGAG
CAGACCTACCAGCCAAAGCTGGACAGCGCCAAGCTGAGCTCTGACCAGAACGACAAGCGGCGCAGTGGGCTCGC
GAGGAGCTGAAGGAGGCCCGCATGCGCCTGGAGTCCCTCAGCTACCAGCTCTCCGGCTCCAGAAGCAGGCCAGT
GCCGCTGAAGATCGCATTGCGGAGCTGGAGGAGGCCATGGCCGGGGAGCGGGACAAGTTCCGGAAGATGCTGGAC
GCCAAGGAGCAGGAGATGACGAGATGCGGGACGTGATGCAGCAGCAGCTGGCCGAGTACCAGGAGCTGCTGGAC
GTGAAGCTGGCCCTGGACATGGAGATCAACGCCTACCGGAAGCTCCTGGAGGGCGAGGAGGAGAGCCTGAAGCTG
TCCCCAGCCCATCTTCGCGCGTACCGTCTCAGCAGCCACCTCGAGCAGCAGCGGCAGCTTGTCCGCCACCGGG
CGCTTGGGCCGAGTAAGCGGAAGCGCTGGAGGTGGAGGAGCCCTTGGCAGCGGCCAAGCGTCTGGGCACGGG
CACGGGTGGCAGCGGTGGCTTCCACCTGGCCAGCAGGCCTCGGCCTCGGGCAGCGTCACATCGAGGAGATCGAC
CTGGAGGGCAAGTTTGTGCAGCTCAAGAACAACCTCGGACAAGGATCAGTCTCTGGGGAAGTGGAGAATCAAGAGG
CAGGTCTTGGAGGGGAGGAGATCGCCTACAAGTTACGCCCAAGTACATCCTGCGGGCGGCCAGATGGTCACG
GTGTGGGCAGCTGTGCGGGGGTGGCCACAGCCCCCTCGACGCTGGTGTGAAGGGCCAGAGCAGCTGGGGC
ACGGGCGAGAGCTTCCGCACCGTCTGGTTAACGCGGATGGCGAGGAAGTGGCCATGAGGACTGTGAAGAAGTCC
TCGGTGATGCGTGAGAATGAGAATGGGGAGGAAGAGGAGGAGGAAGCCGAGTTTGGCGAGGAGGATCTTTTCCAC
CAACAGGGGGACCCGAGGACCACCTCAAGAGGCTGCTACGTGATGTGAACCCACACTCCTCATCCACACACCTTT
CTTTACCCAGAGCCACTGAAAATAATTTTTATCATTGGCTTTCTTTAGTTCTTGATACATTTCTAGAGAATTTT
TAAGCGAACTGCCAGAACGTGTGGGTGGGTCTCCCCAGCCCTCCCTCCTGGCGGGTCTCCTCCAGCCTCACTTC
GCTGCCACTTCGCCGTGCCCCGAGACTTTTCAATCCACCCACTCCTCATCTCACCATTGGTCAAATTGGA
AGCCCAGGGCCAGGACCCGAGGTTTAGAAGATGCTTGGGCTTGGAGGGAGGAGGGCCGGCAGGCTAGCGAGGG
GACAGGAGACGGCCCTGCTGCGGACGGAGCGCGGAACTGCGTAGGAATTCAGTGGTGGTGGGTTTTTTAAGGC
TTTTCTACAAAACCAATTGAGAATCCAGGCGTCGACCTGGTGGGGCCCGGGCAAGCCTGCATTCTGGCTGCCCA
GCTTCGGCAGACGGGAACTCCTCAGGCAGCCACGCAGCGGGTGTGGGCCAGCATGGGGATGGCGTGGCCCCAGGG
GGGTTTTCACTCCGCTGCTGGGCTTCCAGATTCCCGTTCTGGCAGCGACCGGCCGGGTTTTCTCGGACCGTTGAC
TTTTATTGGGGGAGTTTTCCCGCAGTTCAGTTCTGACTGTGCAAGGCCAACAGGGCAGGGGAGGGGAAGACCTG
GGGAAGGAAGAATGAGGACACAGTCCCGTCTGAAGACCTGTCAACAATAAGCAGGGAGGGGAGATGTGGAGGG
GACACATCTGGTTGCCCTTGGAGGCAGAAGCTGTGAGTTTCAAGACAGCTGTCTGCAGGGAACGCCACCATGTTGA
CCCTCTGGAGGAGAGCGCTGTGGAGCCCTCCCGTGTTCAGCTCCGCTGCGCTGTGCCTATATATCATATGCG
TCTATCATACTGTGTCTTTATCTGTGATTTTTCTCGCTGAAACATGTTTCTCAGACAGCCAAGGCCACCTGACTC
CTATCAGCAGCACCCAAAGCCCTCAGTCCAGCTTCCCAATGCCTGGCACCCCTTCGGCAATAGCTCACCCTTT
ACACCCTCCCTCATAGATACACAGAAGTTATTTTTTAATGGATATTTATTTTTTTACATTGGTCAGTACACAGG
TCAGGGAGCTCAGCCAGGGCCTTGAGGACAGGCTGACCCTCCTCCCGGGGTGGCGTGGGGCTGGGGCACCCCC
GACGGCAGAGCTCCTTCAGAAAGTGCAGCTCAAGTCTTAAAGACACCAAACTGAGCCATGGGCACGCGCCGTC
TCCGGGCGATGGCGTTCATGACGGGCGGGGCGCACCGCTCCCTGTGACTGCATCCCGCCTCCTGGGGACC
TGCCTGTGGCAGGAAGGAATGGGGGGCCCCAGCCAGGCCGGGAAGGAGCCAGCGCGCGACAAAGCAGAAACACC
GCTGCTCCACGTAGCCCTGCTGGCTGTCTTGTCTCAGAAGTCCCGTCCCATGTAGATAGAGCCCGCGGAT
CTTACCAAAGCATTTCTCCTGGAGGCTACGCCGCTTGGTGTCTCCAGTGAGGCGGCTGGTAGGGAGCTTTGCCCT
GCCCCGGGGATACCCTCTACCAGCCGCTGGAAGTGGGAATGCTGGCGACAGACTGTGTCTGTTTCCACCTTCAT
AGCAGGAATCACCCGACCCGACTGGCTGGGCTTCGTGCTAGCGAGGGTTTTCTGGGGGTGGGTCTTGGTGATCT
TGTCTATGGGGATCTCTGCAGTGGTCTCAGCCACATCCTAGTATATTTTGGCTCTGGAGGAGCAAAGCTGTATC
CTGGAGTTGGTCTGTGATTTGCCGACAGACTTGACGGCTGGGCTCAGCAAAGTCCCCCAAAACCCGAGGTCC
TCATGTCCAGACGCTGCCAGTCTGTCTGAAACAGCAGCCCCAGGCCACAGAACCCCCACCCCTACATTG
CCTTGGGTGGAGCTGGGGGTGGTCTTAGGACTGCGGGTGCCTTAGCTGAAGGGGGCCCGCAGAAGCGTGAGCTG

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FIGURE 2171B

GGCCGCCTGTGGGTCATTGGAGGTTTCATTGAGAATTGAGTCCTTTGGAAAGACTAAGAAAATCAAATTTTTAAAA
GTTATTTTATGGCCTGGGAAACAATTTGCATTTGTCCCCAAATACGCTTAGCTGTGTGCCGCTTAGAACGATGAGA
AACCATCCCTCTGTGTAAGCCCGTGCCGTGTGACTCGAAGCCTAGCGCCCTCCCTGCGAAGCATCAGACGCCACC
CAGCCCTGGGGGAGGCCCACGCCTGCTGGACCAACGCGGGTTCTGGGGTGACAGCGCCAGGTTAACGCTGAAGC
CTGCCCCGCTGAGCCCAAGAGCCGGGAGGCCTGCGGGCTGACCCAGAATCCGATCATGCACCTGTCCTCATGCCA
GCGGCTTTGGCTGGGGTTGGICTGAAGCCTGCACGCGGCAGTTCTTTGTTAAAGATCTGAGGGACTCGTCAGTCC
TAGCGTCGCCGCCCTGCAGCCTCTTCCAAGCCCTGCGTCCAGCGAGCGTCACAGCACAACCTGCAAAAACGGAGCT
GGGCTGCAGCTGGGGCTGGCATGGACTTTCATTTTCAGAGATTGCGTTTTTAAGAAGATGCATGCCTAGCGTGTTT
TTTTTTTTTCCAATGATTGTGTAATATACATTTTATGACTGGAACTTTTTTGTACAACACTCCAATAAA

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FIGURE 2172

RVLDETARERARLQIEIGKLRAELDEVNKSAKKREGELTVAQGRVKDLES LFHRSEVELAAALSDKRGLES DVAE
LRAQLAKAEDGHAVAKKQLEKETLMRVDLENRCQSLQEELDFRKS VFEEVRETRRRHERRLVEVDSSRQQEYDF
KMAQALEELRSQHDEQVRLYKLELEQTYQAKLDSAKLSSDQNDKAASAAREELKEARMRLESLSYQLSGLQKQAS
AAEDRIRELEEAMAGERDKFRKMLDAKEQEMTEMRDVMQQQLAEYQELLDVKLALDMEINAYRKLLGEGEESLKL
SPSPSSRVTVSRATSSSSGSLSATGRLGRSKRKRWRWRSPWQRPKRPGHGHGWQRWLPPGPAGLGLGQRHIEEID
LEGKFVQLKNNSDKDQSLGNWRIKRQVLEGE EIAYKFTPKYILRAGQMTVWAAGAGVAHSPPSTLVWKGQSSWG
TGESFRTVLVNADGEEVAMRTVKKSSVMRENENGE EEEEEAEFG EEDLFHQGDPRTTSRGCYVM

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FIGURE 2173

CTTATTATGACTGAACAAGCAAGAAGATATCTGAGTACTTACACAGCTACCAGTAGTACTTCAAGAGCTCTCATA
CTGTAAATTGTTATTAAAAATTGATGATATGCCCCACTCCCTTACTGCAGTCTCTACTAAATTAGGTTGCAGTGAAA
TTTTTCTCAATTAGTTGTTTTTAAAGTTGTAAGATAGCCCTTTAATACAGCATCTTTTTTCTATTCTATATAGT
AGGCAGAAAGCTAGTAAGTCACTTAAGGGGTAGATAGTTTCATAGTTTATTTTTTAAGAGATGAGATTTTTAAAA
ATTGTTTTTAAAGAACAAGATGGGAAAATAATAGAATGTTTCATGGATTTCTAAAAGTAAATTCTCATATATTTTC
TTCACAAGATATAIGTTGCTACTCTCTTGATGCTGCAGTTTTGTTATAGATAGGTGTATGAGTATATATGATTTTC
TGAAATTAGTCTATGTATGGAAAGCACACATGATTTTATGAAGTACTTTTGCCCATGTGCTGATTTACTTAGGCT
ACCATTTACAAAGAAACACATTGAAAAGGAATTTAAAGGAAGGATAGAAAGTTGCACTACTAATTTTTTGTTTTT
TTTTTCAGAAGCAGTAAAATTAATACTACAGTGTTAAATGTATTTATTTGAGCATAGTACTGAAACAAAAAGCATT
CAAAAAGAGTTTTTCTTTATTAGTAAATAGTATTTTCTTAATCTCAGAGGAGCTGAGAGTTTTGTTGAATGTA
TTGTACAGTATGTAGGAGCAGGAGAACTTTGTAAATTGAAAGAAGTCTGTTTTTATAATTTATTTTTATTTTTTA
AAGCTT

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FIGURE 2174

LIMTEQARRYLSTYTATSSTSRALIL

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FIGURE 2175A

GGGAGCGCGGGGAGCGCGGGCCGGCGGGCGGAGGAGCGGGGGCGCAGACGGCCGGCGCGCGGGCGGGCTAC
CATGGGCGTGCGGTGAGCAGCCGCTCGGGACGACTTCCTCGGCTGCGCGGGCGCTCGCGGGAGCTCCCGGCCGG
CGGTGCGTCCCCACGGTCACCATGAAAGACGACTTCGCAGAGGAGGAGGAGGTGCAATCCTTCGGTTACAAGCGG
TTTGGTATTCAGGAAGGAACACAATGTACCAATGTAAAAATAACTGGGCACTGAAGTTTTCTATCATATTATTA
TACATTTTGTGTGCTTGTCTAACAAATCAGTAGCCATTTTGGGATATAAAGTTGTAGAGAAAATGGACAATGTC
ACAGGTGGCATGGAAACATCTCGCCAAACCTATGATGACAAGCTCACAGCAGTGGAAGTGACCTGAAAAAATTA
GGTGACCAAACTGGGAAGAAAGCTATCAGCACCAACTCAGAACTCTCCACCTTCAGATCAGACATTCTAGATCTC
CGTCAGCAACTTCGTGAGATTACAGAAAAAACAGCAAGAACAAGGATACGCTGGAGAAGTTACAGGCGAGCGGG
GATGCTCTGGTGACAGGCAGAGTCAATTGAAAGAACTTTGGAGAATAACTCTTTCTCATCACCCTGTAAAC
AAAACCTCCAGGCGTATAATGGCTATGTACGAATCTGCAGCAAGATACCAGCGTGTCCAGGGCAATCTGCAG
AACCAATGTATTCTCATAATGTGGTCATCATGAACCTCAACAACCTGAACCTGACCCAGGTGCAGCAGAGGAAC
CTCATCAGCAATCTGCAGCGGTCTGTGGATGACACAAGCCAGGCTATCCAGCGAATCAAGAACGACTTTCAAAT
CTGCAGCAGGTTTTCTTCAAGCCAAGAAGGACACGGATTGGCTGAAGGAGAAAGTGACAGCTTGCAGACACTG
GCTGCCAACAACTCTGCGTTGGCCAAAGCCAACAACGACACCCTGGAGGATATGAACAGCCAGCTCAACTCATT
ACAGGTGAGATGGAGAACATCACCCTATCTCTCAAGCCAACGAGCAGAACCTGAAAGACCTGCAGGACTTACAC
AAAGATGCAGAGAATAGAACAGCCATCAAGTTCAACCAACTGGAGGAACGCTTCCAGCTCTTGAGACGGATATT
GTGAACATCATTAGCAATATCAGTTACACAGCCCACCACCTGCGGACGCTGACCAGCAATCTAAATGAAGTCAGG
ACCCTTGACAGATACCCCTTACCAAACACACAGATGATCTGACCTCCTTGAATAATACCTGGCCAACATCCGT
TTGGATTCTGTTTTCTCTCAGGATGCAACAAGATTTGATGAGGTGAGGTTAGACACTGAAGTAGCCAACCTTATCA
GTGATTATGGAAGAAATGAAGCTAGTAGACTCCAAGCATGGTCAGCTCATCAAGAATTTTACAATACTACAAGGT
CCACCGGGCCCCAGGGTCCAAGAGGTGACAGAGGATCCAGGGACCCCTGGCCCAACTGGCAACAAGGGACAG
AAAGGAGAGAAGGGGGAGCCTGGACCACCTGGCCCTGCGGGTGAGAGAGGCCCAATTGGACCAGCTGGTCCCCC
GGAGAGCGTGCGGGCAAAGGATCTAAAGGCTCCCAGGGCCCCAAAGGCTCCCGTGGTTCCCTGGGAAGCCCGGC
CCTCAGGGCCCCAGTGGGGACCCAGGCCCCCCGGGCCACCAGGCAAAGAGGGACTCCCCGGCCCTCAGGGCCCT
CCTGGCTTCCAGGGACTTACAGGCACCGTTGGGGAGCCTGGGGTGCTGGACCTCGGGGACTGCCAGGCTTGCTT
GGGGTACCAGGCATGCCAGGCCCAAGGGCCCCCGGCCCTCCTGGCCCATCAGGAGCGGTGGTGGCCCTGGCC
CTGCAGAAATGAGCCAACCCCGGCACCGGAGGACAATAGTAAGTCCAAGCCCTCCCTCCAGCCAGGGGGACAGGGC
AGTGCATGTGCTTGAGACTGAGCCAACCCCACTGTGTGGCCCCACCCATGTTATTTTTGTTTTGTTTTGTTT
TGAGACAGGGTCTCACTCTGTTGCCAGGCTGGAGTGCACTGGCGTGATCTCGGCTCACTGCAACCCCACTCC
CGGGTTCAAGTGATTCTCTGCTTAGCCTCCAGGTAGCTGGGAATACAAGCGTGTGCCCCACAGCCAGCTAA
TTTTTGATTTTTAGTAGAGGGGTTTACAGTGTTGGGCAGGGTGGTTTCAAACCTCTGGCCTCAAGTGATCC
ACCTACCTAGTTTCCCAAAGTGCTGGGAATACAGGTGTGAACCAACAGTTTGTCCCCGGCTGCATATTATTT
AACAGCAAAGGCATCATAGGGGTTGGCACAGGAGCCCTGCTGCCAGAACAGGCCTCCATACCAGGCATGTGTCTC
TCTCTAAACGCCATTGGGTTTTTTAGTGCTCATTGTTTTATGTATTATGTGTATGTATGGGACAGGGTCTCA
CTCTGTCACCCAGGCTGGAATGACGAAGTGAAGTAGTGCAACATAGCTCATTGCAGCTTTGACCTCCTGGGCTT
AGGTGATCTTCCCACTCAGACTCCTGCGTAGCTGGGACCACAGGGGTATGCCACCACACCTGGCTAATTTTTAT
TTTCTTTTTGTAGAAACAGGGTCTTGCTATGTTGCCAGGCTGGTCTTGAACCTCTGGCCTCAAGCAACCCCTCC
TGCCTCAGTCTTGCAAAGTGCTGGGATTCCAGGTGGGAGCCACTGCACCTGGCTCTTGCACTTGTATTATATAG
GAGCCAGCCCTCAGAAGACAAACACAATGCAAAACATTTCTTCAGGGAAGCTGCTGGCCGCCCTGAGCGCTCT
TCCCTCGTTTTACATCCTCACTCTGGAGATAGATGGGCTCCCTCGGTTAGCTCCATCAACATGTGGATGGAACCC
TCTGCTATTGATGACTACATTTAATTTCTTTTTGAGAAAGGTGTAGATGTTACGGTGCCTTCTAGTCTTTTGAT
AATTAACCTTTGGCAAACTCGAATGTTTGGTTAGCAACCAAGCCTATTTTTCTCTCTTTGACCAACCGCTA
TTCTACTTGATTTTGGTCGGTGAGGCCCGGGTTATTTTTGTTGATCCGTGAGCCATTTTTGGTGCTGGGTTCTC
ACATCCAAGTGTTCCTGGGTTCCGTATGATTCAGACTGACGCTGAACATCTGTGCTGCCCTGCTTCTTGTGT
TGCTTCTGTCAATTTCTGTCAATGTGAAGACGGATCCAAACACAGAAGAACAAGACCCAGTCCAAGATCCATCCA
GATTATGTGGTTTCGGCTTGTCTCTGCAGTCCACTTTGGGTCACTGCTTGTGCGAGCACGTCCGTGAACGTGAG
CTGTGGCCCTCGTGAGGACGCTCAGGCTGCTCCAGCGGGACCACAGTTTTGGCCTCTGAAACACAGCTGAAG
AAAGGCAGAGTGCTTTCTGTGATCTTTAATCAATGTTTTCCACTTTTGATTCTTAGGCTGCCCGCCTCACTGG

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FIGURE 2175B

AAGAACTTCACAGACAAATGCTACTATTTTTCAGTTGAGAAAGAAATTTTGGAGGATGCAAAGCTTTTCTGTGAA
GACAAGTCTTCACATCTTGTTTTTCATAAACA TAGAGAGGAACAGCAATGGATAAAAAACAGATGGTAGGGAGA
GAGAGCCACTGGATCGGCCTCACAGACTCAGAGCGTGAAAATGAATGGAAGTGGCTGGATGGGACATCTCCAGAC
TACAAAAATTGGAAAGCTGGACAGCCGGATAACTGGGGTCATGGCCATGGGCCAGGAGAAGACTGTGCTGGGTTG
ATTTATGCTGGGCAGTGGAACGATTTCCAATGTGAAGACGTCAATAACTTCATTTGCGAAAAAGACAGGGAGACA
GTACTGTCATCTGCATTATAACGGACTGTGATGGGATCACATGAGCAAATTTTCAGCTCTCAAAGGCAAAGGACA
CTCCTTTCTAATTGCATCACCTTCTCATCAGATTGAAAAAAAAAAGCACTGAAAACCAATTACTGAAAAAAAT
TGACAGCTAGTGTTTTTTTACCATCCGTCATTACCCAAAGACTTGGGAACTAAATGTTCCCCAGGGTGATATGCT
GATTTTCATTGTGCACATGGACTGAATCACATAGATTCTCCTCCGTCAGTAACCGTGCGATTATACAAATTATGT
CTTCCAAAGTATGGAACACTCCAATCAGAAAAAGGTTATCATTGGTCGTTGAGTTATGGGAAGAACTTAAGCATA
TACTGTGTAAACAGTGCCATACATTTCTAAAAATCCCAAGTGTAGGAAAAATATGCAGACATACAGATATATAGGC
CAACTATTAGTAATAATATGAAATATACTTAAAGAGCTTTTAAACTTTGTATTTTGTACAAAATATTTGTCTT-
TTACAATTTTTTTCCTTTTTTTTTTTTTTGTCAATTTACCGACATAATACATGGAGCCAAAGAAAACAATAATGGT
ACTAATAAAAACTCCTAGGGTTTCCTGTCAGATTTAATTCTACCCAGTGGCAAAGAATTTTTTCAATTGTGGCTT
TAAAAAATAATTAAATATACATGTATATATATAT

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FIGURE 2176

MKDDFAEEEEVPSFGFKRFGIHEGTQCPKCHNNWALKFSIILLYILCALLTITVAILGYKVVEKMDNVTGGMETS
RQTYDDKLTAVESDLKKLGDQTGKKAISTNSELSFTRSDILDLRQQLREITEKTSKNKDTLEKLQASGDALVDRQ
SQLKETLENNNSFLITTVNKTLQAYNGYVTNLQQDTSVLQGNLQNMYSHNVVIMNLLNLTQVQQRNLTITNLQR
SVDDTSQAIQRIKNDFFQLQQVFLQAKKTDWLKEKVQSLQTLAANNSALAKANNDTLEDMNSQLNSFTGQMENI
TTISQANEQNLKDLQDLHKDAENRTAIKFNQLEERFQLFETDIVNIIISNISYTAHHLRTLTSLNEVRTTCTDTL
TKHTDDLTSLNNTLANIRLDSVSLRMQQDLMSRLDTEVANLSVIMEEMKLVD SKHGQLIKNFTIILQGPPGPRGP
RGDRGSQGPFGPTGNKGQKGEKGEPPGPAGERGPIGPAGPPGERGGKGSKGSQGPKGSRGSPGKPGPQGPSGD
PGPPGPPGKEGLPGPQGPFGFQGLQGTVGEPGVPGRGLPGLPGVPGMPGPKGPPGPPGPSGAVVPLALQNEPTP
APEDNSKSKPSLQPGGQGSACA

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FIGURE 2177

AGTTGAGCGCAGTCGCCGCTCCAGTCTATCCGGCACTAGGAACAGCCCCGGGGGCGAGACGGTCCCCGCCATGTC
TGCGGCCATGAGGGAGAGGTTTCGACCGGTTCTGCACGAGAAGAACTGCATGACTGACCTTCTGGCCAAGCTCGA
GGCCAAAACCGGCGTGAACAGGAGCTTCATCGCTCTTGGTGTATCGGACTGGTGGCCTTGTACCTGGTGTTCGG
TTATGGAGCCTCTCTCCTCTGCAACCTGATAGGATTTGGCTACCCAGCCTACATCTCAATTAAGCTATAGAGAG
TCCCAACAAAGAAGATGATACCCAGTGGCTGACCTACTGGGTAGTGTATGGTGTGTTACGATTGCTGAATTCTT
CTCTGATATCTTCCTGTATGTTCCCTTCTACTACATGTGAAGTGTGGCTTCTGTGTGGTGCATGGCCCC
GAGCCCTTCTAATGGGGCTGAAGTGTCTACAAGCGCATCATCCGTCCTTTCTTCTGAAGCAGAGTCCCAGAT
GGACAGTGTGGTCAAGGACCTTAAAGACAAGTCCAAAGAGACTGCAGATGCCATCACTAAAGAAGCGAAGAAAGC
TACCGTGAATTTACTGGGTGAAGAAAAGAGACACCTTAAACCAGACTAAACCAGACTGGATGGAAACTTCCTGC
CCTCTCTGTACCTTCTACTGGAGCTTGATGTTATATTAGGGACTGTGGTATAATTATTTTAATAATGTTGCCTT
GGAAACATTTTGAGATATTAAAGATTGGAATGTGTTGTAAGTTCTTTGCTTACTTTTACTGTCTATATATATAG
GGAGCACTTTAACTTAATGCAGTGGGCAGTGTCCACGTTTTTGGAAAATGTATTTGCCTCTGGGTAGGAAAAG
ATGTATGTTGCTATCCTGCAGGAAATATAAACTTAAATAAAATTATATACCCACAGGCTGTGTACTTTACTGG
GCTCTCCCTGCACGXATTTTCTCTGTAGTTACATTTAGGXTAATCTTTATGGTTCTACTTCCXTAATGTACAA
TTTATATAATTCXGAATGTTTTAATGTATTGTGCACATGTACATATGGAAATGTTACTGTCTGACTACAXCA
TGCATCATGCTCATGGGGAGGAGCAGGGGAAGGTTGTATGTGTCAATTTATAACTCTGTACAGTAAGACCACCT
GCAACAAGCTGGAGGAACCATGTGCTGGTGTGGTCTACTAAATAATACTTTAGGAAATACGTGATTAATATGCA
AGTGAACAAAGTGAGAAATGAAATCGAATGGAGATTGGCCTGGTTGTTTCCGTAGTATATGGCATATGAATACCA
GGATAGCTTTATAAAGCAGTTAGTTAGTTAGTTACTCACTCTAGTGATAAATCGGGAAATTTACACACACACACA
CACACACACACACACACACACACACACACACACAGAGTACCCTGTAACCTCTCAATTCCTGAAAACTA
GTAATACTGTCTTATCTGCTATAAACTTTACATATTTGTCTATGTCAAGATGTACAXTGGAXXCATTTCCTGG
TTTTATCTTCAXAGXGGAGAXACATGTTGATTAGTCTTCTTTCCCAATCTTCTTTTTTAAXCCAGTTTXAGGX
CTTCTGXAGATTTGXCCACCTCTGATTACATGTATGTTCTXGTTGTATCATXAGCAACAACATGCTAATGXCGA
CACCTAGCTCTXAGXGCAATTCGGGAGAXTGAXAGGXGTATAXAGTXXCCCATATCTGCTTGGCAATAGTTA
AGTCAATCTATCTTCAGTTTTTCTCTGGCCTTTAAGGTCAAACACAAGAGGCTTCCTAGTTTACAAGTCAGAGT
CACTTGTAGTCCATTTAAATGCCCTCATCCGTATCTTTTGTTGATAAGCTGCACAXGACTACATAGTAAGTAC
AGAXCAGTAAAGTTAAXXCGGATGTCTCCATTGATCTGCCAAXTCGXTATAGAGAGCAATTTGTCTGGACTAGAA
AATCTGAGTTTTACACCATACTGTAAAGAGTCCTTTTGAATTAAGTACTAGACTAAAACAAGTGATACTAAACTA
ACAAGATTAATATCCAGCCAGTACAGTATTTTTTAAGGCAAATAAAGATGATTAGCTCACCTTGAGXTAACAAT
CAGGTAAGATCATXACAATGTCTCATGATGTAXAATATTAAAGATATCAATACTAAGTGACAGTATCACXXCT
AATATAATATGGATCAGAGCATTATTTTGGGGAGGAAAACAGTGGTGATTACCGGCATTTTATTAACTTAAAA
CTTTGTAGAAAGCAAACAAAATTGTTCTTGGGAGAAAATCACTTTTAGATTAAAAAAATTTAAGTAXCTAGGA
GTATTTAAATCCTTTTCCCATAAATAAAAGTACAGTTTTCTTGGTGGCAGAATGAAAATCAGCAACXTCTAGCAT
ATAGACTATATAATCAGATTGACAGCATATAGAATATATTATCAGACAAGATGAGGAGGTACAAAAGTTACTATT
GCTCATAATGACTTACAGGCTAAAAXTAGXTXTAAAATACTATATTAAATCTGAAATGCAATTTTTTTTTGTTCC
CTTGAGACCAAAATTTAAGTTAACTGTTGCTGGCAGTCTAAGTGTAAATGTTAACAGCAGGAGAAGTTAAGAATT
GAGCAGTTCTGTTGCATGATTTCCCAAATGAAATACTGCCTTGGCTAGAGTTTGAAAACTAATTGAGCCTGTGC
CTGGCTAGAAAAAAGCGTTTATTTGAATGTGAATAGTGTTCCAAAGGTATGTAGTTACAGAATTCCTACCAAAC
AGCTTAAATCTTCAAGAAAGAATTCTGCAGCAGTTATCCCTTACCTGAAGGCTTCAATCATTGGATCAACA
ACTGCTACTCTCGGGAAGACTCCTCTACTCACAGCTGAAGAAAATGAGCACACCCTTCACACTGTTATCACCTAT
CCTGAAGATGTGATACACTGAATGGAAATAAATAGATGTAAATAAAATTGAGXTCTCATTTAAAAAAACCATGT
GCCAATGGGAAAATGACCTCATGTTGTGGTTTTAAACAGCAACTGCACCCACTAGCACAGCCATTGAGCTAXCC
TATATATACATCTCTGTCACTGCCCCCTC

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FIGURE 2178

MRERFDRFLHEKNCMTDLLAKLEAKTGVNRSFIALGVIGLVALYLVFGYGASLLCNLIGFGYPAYISIKAIESPN
KEDDTQWLTYWVYGVFSIAEFFSDIFLSWFPFYMLKCGFLLWCMAPSPSNGAELLYKRIIRPFFLKHESQMDs
VVKDLKDKSKETADAITKEAKKATVNLLGEEKST

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FIGURE 2179

GGGGTACTCGGCGGCGGCGGAGCGGGCGGCAGAGCAGGGCGGCGGCGACTCGCAGGGTACCACCATCTTAAGGAC
AGAAAAGCTACAGGACTCTAGGAGGCCACCGTCCTGATTGGGAAGTCCAACCTACTTTGGCCAGACAGCAGCTA
AGCTGGTTTCATCCCATCAGCCTGGATTGGTGAAACTGAATCACAGGAGATATTTCCAGGTTTGCTGGGATGGGAA
ACCTGCTCAAAGTCCTTACCAGGGAAATTGAAAACCTATCCACACTTTTTCCTGGATTTTGAAAATGCTCAGCCTA
CAGAAGGAGAGAGAGAAATCTGGAACCAGATCAGCGCCGTCCTTCAGGATTCTGAGAGCATCCTTGCAGACCTGC
AGGCTTACAAAGGCGCAGGCCAGAGATCCGAGATGCAATTCAAAATCCCAATGACATTTCAGCTTCAAGAAAAAG
CTTGGAATGCGGTGTGCCCTCTTGTTGTGAGGCTAAAGAGATTTTACGAGTTTTCATTAGACTAGAAAAAGCTC
TTCAGAGTTTATTGGAATCTCTGACTTGTCCACCCTACACACCAACCCAACCTGGAAAGGGAACAGGCCCTGG
CAAAGGAGTTTGCCGAAATTTTACATTTTACCCTTCGATTTCGATGAGCTGAAGATGAGGAACCCGGCTATTGAGA
ATGACTTCAGCTACTACAGAAGAACAATCAGTCGCAACCGCATCAACAACATGCACCTAGACATTGAGAATGAAG
TCAATAATGAGATGGCCAAATCGAATGTCCCTCTTCTATGCAGAAGCCACGCCAATGCTGAAAACCCCTTAGCAATG
CCACAATGCACCTTTGTCTCTGAAAACAAAACCTCTGCCAATAGAGAACACCACAGACTGCCTCAGCACAATGACAA
GTGTCTGTAAAGTCATGCTGGAACCTCCGGAGTACAGAAGTAGGTTTACGAGTGAAGAGACCCCTGATGTTCTGCA
TGAGGGTGATGGTGGGAGTCATCATCTCTATGACCATGTCCACCCTGTGGGAGCTTTCTGCAAGACATCCAAGA
TCGATATGAAAGGCTGCATAAAAGTTTTGAAGGAGCAGGCCCCAGACAGTGTGGAGGGGCTGCTAAATGCCCTCA
GGTTCACTACAAAGCACTTGAACGATGAATCAACTTCCAAACAGATTGAGCAATGCTTCAGTAGAGCTCTGCTC
AAAGAAGAGGATCTATGTGCTGACCTCAGAAGATGTATATGTTTACATAATTTAATACAGATTGATGTTAATACT
TGTGTTTTACATAACCGTTTCCTTCTTGTCACTGAAATATATGGACCTTAATTTGTATCCTGACTGACTCAACC
CAGCAGAGCATAAATTGACTTGAGAGCCTTACCTTTGATGTCTGAAATGAAACCCCTTCTCCAAAGGCAAAATT
CGGAGACTTTGATCTTTGCTACTGGAGTCCTTTAACAACATCTATAACGATAAAAAATTCCTAATTGTCAAAAAA
AAAAAAAAAAAAA

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FIGURE 2180

MGNLLKVLTREIENYPHFFLDFENAQPTEGEREIWNQISAVLQDSESILADLQAYKGAGPEIRDAIQNPNDIQLQ
EKAWNVCPLVVRLKRFYEFSSIRLEKALQSILLESITCPPYTPTQHLEREQALAKEFAEILHFTLRFDLKMKNPA
IQNDFSYYRRTISRNRINNMHLDIENEVNNEMANRMSLFYAEATPMLKTLNATMHFVSENKTLPIENTTDCLST
MTSVCKVMLETPEYRSRFTSEETLMFCMRVMVGVIILYDHVHPVGAFCKTSKIDMKGCIKVLKEQAPDSVEGLLN
ALRETTKHLNDESTSKQIRAMLQ

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FIGURE 2181A

CTGGCCGCGGCGTGCGGACAGCGAGGCGCACTGGGGCCTCCAGCGCCGGGCGGCGCGCGCTCCAGCCGAGG
TCTACGGCTTTGCGCTCCGAGCCCAGAGGAAGATGCTTCCGGCACCAGAGCTCGGGCTGCGGGGCTGAACGCCTG
TCTTCCAGGCGCACGGCAGCACTGCCCTCGGCCGTGTCGGTAGCGGCACTCGGCGTGCCCCGGGCGGACGAAGA
GCGCAGGCTGGGTACACCTTGCCCGAATCGGCGGAGTTTCGAGCTAGCGAGGGCGGGCCGGCCGGCCGGATGGG
CGCGGGGTTTTGCGGCCCCCGCGGGTGCTCCGGAGCGGCCCGGGCACCGGGGGCACGCTGAGTGCCGGAGCCGG
GCCGAGAGAGAACTTGGGGCGGGGGCCATGCACCGGTGCGGAGTCTAGAGCCGAGCGGAGCGCCCCGCGGGGCC
GCCCCGCTCTGCGGCCGTTCGGGTCTCACAGTCCCCGCGCCCGGAGTTTCGAGCGCGCTCCAGACAAGATGGCG
CGGCCGCTCCGGGAGGGCTCGGGCCCCGCGCGCTCGCCTTGCTTCTCTTCTCTGCTGCTTTTGCTTCGG
CTGGAGCCGTTGACCGCGCGGCCCGCGGGCGCCCTGCGCGGCCGCTGCACTTGCGCTGGGGACTCGCTG
GACTGCGGTGGGCGCGGGCTGGCTGCGTTGCCCGGGACCTGCCCTCTGGACGCGGAGCTAAACCTGAGTTAC
AACAACTCTCTGAGATTGACCTGCTGGTTTTGAGGACTTGCCGAACCTACAGGAAGTGTACCTCAATAATAAT
GAGTTGACAGCGGTACCATCCCTGGGCGCTGCTTCATCATATGTCGTCTCTCTTTCTGACGACACAACAGATT
CGCAGCGTGGAGGGAGCCAGCTGAAGGCCTACCTTTCTTAGAAGTGTAGATCTGAGTTGAACAACATCAGC
GAAGTGCGGAACACCTGCTTTCCACACGACCGCCTATAAAGGAGCTCAACCTGGCAGGCAATCGGATTGGCACC
CTGGAGTTGGGAGCATTGATGGTCTGTACGGTCTGTGCTAATCTTCGCTGAGCAAAAACAGGATCACCCAG
CTTCTGTAAAGAGCATTCAAGCTACCCAGGCTGACACAACCTGGACCTCAATCGGAACAGGATTTCGGCTGATAGAG
GGCCTCACCTTCCAGGGGCTCAACAGCTTGAGGTGTGAAGCTTCAGCGAAACAACATCAGCAAACTGACAGAT
GGGGCCTTCTGGGGACTGTCAAGATGCATGTGCTGCACCTGGAGTACAACAGCCTGGTAGAAGTGAACAGCGGC
TCGCTCTACGGCCTCACGGCCCTGCATCAGCTCCACCTCAGCAACAATTCATCGCTCGCATTACCCGCAAGGGC
TGGAGCTTCTGCCAGAAGCTGCATGAGTTGGTCTGTCTTCAACAACCTGACACGGCTGGACGAGGAGAGCCTG
GCCGAGCTGAGCAGCCTGAGTGTCTGCGTCTCAGCCACAATTCATCAGCCACATTGCGGAGGGTGCTTCAAG
GGACTCAGGAGCCTGCGAGTCTTGGATCTGGACCATAACGAGATTTCCGGGCACAATAGAGGACACGAGCGGCGCC
TTCTCAGGGCTCGACAGCCTCAGCAAGCTGACTCTGTTTGGAAACAAGATCAAGTCTGTGGCTAAGAGAGCATT
TCGGGGCTGGAAGGCCTGGAGCACCTGAACCTTGGAGGGAATGCGATCAGATCTGTCCAGTTTGATGCCTTTGTG
AAGATGAAGAATCTTAAAGAGCTCCATATCAGCAGCGACAGCTTCTGTGTGACTGCCAGCTGAAGTGGCTGCCC
CCGTGGCTAATTGGCAGGATGCTGCAGGCCTTTGTGACAGCCACCTGTGCCACCCAGAACTACTGAAGGGTCAG
AGCATTCTCTGTGTCACAGAGAGTTTCGTGTGCGATGACTTCTGAAGCCACAGATCATCCCCAGCCAGAA
ACCACCATGGCTATGGTGGCAAGGACATCCGGTTTACATGCTCAGCAGCCAGCAGCAGCAGCTCCCCATGACC
TTTGCCTGGAAGAAAGACAATGAAGTCTGACCAATGCAGACATGGAGAATTTGTCCACGTCCACGCGCAGGAC
GGGGAAGTGATGGAGTACACCACCATCCTGCACCTCCGTGAGGTCACTTTCCGGCACGAGGGCCGCTACCAATGT
GTCATCACAACCACTTTGGTCCACCTATTACATAAGGCCAGGCTCACTGTGAATGTGTTGCCATCATTCACC
AAAACGCCCCACGACATAACCATCCGGACCACCAACATGGCCCCCTCGAATGTGCTGCCACAGGTACCCAAAC
CCTCAGATTGCTTGGCAGAAGGATGGAGGCACGGATTTCCCGCTGCCCGTGAGCGACGCATGCATGTCATGCCG
GATGACGACGTGTTTTTCTACTGATGTGAAAATAGATGACGCGGGGTTTACAGCTGTACTGCTCAGAACTCA
GCCGGTTCTATTTTCTAGCTAATGCCACCCTGACTGTCTAGAGACCCCATCTTGGTGGTCCCCTTGGAGACCGT
GTGGTATCTGTGGGAGAAACAGTGGCCCTCCAATGCAAAGCCACGGGGAACCTCCGCCCCGCATCACTGGTTT
AAGGGGGACCGCCGCTGAGCCTCACTGAGCGGCACCACTGACCCCTGACAACCAGCTCCTGGTGGTTTCAAG
GTGGTGGCAGAGGATGCGGGCCGATATACCTGTGAGATGTCCAAACCCCTGGGCACGGAGCGAGCTCACAGCCAG
CTGAGCGTCTGCCCGCAGCAGGCTGCAGGAAGGATGGGACCACGGTAGGCATCTTACCATTGCTGTCGTGAGC
AGCATCGTCTGACGTCACTGGTCTGGGTGTGCATCATCTACCAGACCAGGAAGAAGAGTGAAGAGTACAGTGT
ACCAACACAGATGAAACCGTCTGTGCCACAGATGTTCCAAGCTACCTCTCTTCTCAGGGGACCCCTTTCTGACCGA
CAAGAAACCGTGGTCAAGACCGAGGGTGGGGCCCTCAGGCCAATGGGCACATTGAGAGCAATGGTGTGTGTCCA
AGAGATGCAAGCCACTTTCCAGAGCCCGACACTCACAGCGTTGCCCTGCAGGCAGCCAAAGCTCTGTGCTGGGTCT
GCGTATCACAAGAGCCGTGGAAAGCGATTGAGAAAGCTGAAGGGACACCTGGGCCACATAAGATGGAACACGGT
GGCCGGGTGCTATGCACTGACTGCAACACCGAAGTGGACTGTTACTCCAGGGGACAAGCCTTCCACCCCGACCT
GTGTCCAGAGACAGCGCACAGCCAAGTGGCCAAATGGCCCGAGCCGGTGGGAGTGACCAAGAGCATTCTCCA
CATCACCAGTGCAGCAGGACTGCCGCTGGGTCTGCCCCGAGTGCCAAGGGTCTGCTCTACCCAGTAACCAGAT
AGAATGCTGACGGCTGTGAAGAAAAGCCAATGGCATCTCTAGATGGGAAAGGGGATTCTTCTGACTTTAGCA

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FIGURE 2181B

AGGTTGTATCACCCGGACTCTACAGAGCTACAGCCTGCATCTTCATTAACTTCAGGCAGTCCAGAGCGCGCGGAA
GCCCAGTACTTGCTTGTTTCCAAATGGCCACCTCCCCAAAGCATGTGACGCCAGTCCCGAGTCCACGCCACTGACA
GGACAGCTCCCCGGGAAACAGAGGGTGCCACTGCTGTTGGCACCAAAAAGCTAGGTTTTGTCTACCTCAGTTCTT
GTCATACCAATCTCTACGGGAAAGAGAGGTAGGAGAGGCTGCGAGGAAGCTTGGGTTCAAGCGTCACTCATCTGT
ACATAGTTGTAACCTCCCATGTGGAGTATCAGTCGCTCACAGGACTTGGATCTGAAGCACAGTAAACGCAAGAGGG
GATTTGTGTACAAAAGGCAAAAAAGTATTTGATATCATTGTACATAAGAGTTTTTCAGAGATTTTCATATATATCT
TTTACAGAGGCTATTTTAATCTTTAGTGCATGGTTAACAGAAAAAATTATACAATTTTGACAATATTATTTTTC
GTATCAGGTTGCTGTTTAATTTTGGAGGGGGTGGGGAAATAGTTCTGGTGCCTTAACGCATGGCTGGAATTTATA
GAGGCTACAACCACATTTGTTACAGGAGTTTTTGGTGCGGGTGGGGAAGGATGGAAGGCCTTGGATTTATATTG
CACTTCATAGACCCCTAGGCTGCTGTGCGGTGGGACTCCACATGCGCCGGAAGGAGCTTCAGGTGAGCACTGCTC
ATGTGIGGATGCCCTGCAACAGGCTTCCCTGTCTGTAGAGCCAGGGGTGCAAGTGCCATCCACACTGCAGTGA
ATGGCTTTTTCCTTTTAGGTTTAAAGTCCTGTCTGTCTGTAAAGGCGTAGAATCTGTCCGTCTGTAAAGGCGTAGAATG
AGGGTTGTTAATCCATCACAAGCAAAAGGTGAGAAGCTTAAACACTGCCTTTCCTCCTCCTCTTATTTTATGAT
AAAAGCAAATGTGGCCTTCTCAGTATCATTGATTGCTATTTGAGACTTTTAAATTAAGGTAAAGGCTGCTGGTG
TTGGTACCTGTGGATTTTCTATACTGATGTTTTCGTTTTGCCAATATAATGAGTATTACATTGGCCTTGGGGGA
CAGAAAGGAGGAAGTTCTGACTTTTCAGGGCTACCTTATTTCTACTAAGGACCCAGAGCAGGCCTGTCCATGCCA
TTCCTTCGCACAGATGAACTGAGCTGGGACTGGAAGGACAGCCCTTGACCTGGGTTCTGGGTATAATTTGCAC
TTTTGAGACTGGTAGCTAACCATCTTATGAGTGCCAATGTGTCAATTTAGTAAACCTTAAATAGAAACAAGGTCCT
TCAAATGTTCTTTTGGCCAAAAGCTGAAGGGAGTTACTGAGAAAATAGTTAACAATTACTGTCAGGTGTCATCAC
TGTTCAAAAGGTAAGCACATTTAGAATTTGTTCTTGACAGTTAACTGACTAATCTTACTTCCACAAAATATGTG
AATTTGCTGCTTCTGAGAGGCAATGTGAAAGAGGGAGTATTACTTTTATGTACAAAGTTATTTATTTATAGAAAT
TTTGGTACAGTGACATTGAAAACCATGTAAAATATTGAAGTGCTAACAAATGGCATTGAAGTGCTTTAATAA
AGGTTCAATTTATAAATGTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2182

MARPVRGGLGAPRRSPCLLLLWLLLLRLEPVTAAAGPRAPCAAACCTCAGDSLDCGGRGLAALPGDLPSWTRSLNL
SYNKLSEIDPAGFEDLPNLQEVYLNNNELTAVPSLGAASSHVVSFLQHKNKIRSVEGSQKAYLSLEVLDLSLNN
ITEVRNTCFPHGPPIKEINLAGNRIGTLELGAFDGLSRSLTLRLSKNRITQLPVRAFKLPRLTQLDLNRNRIRL
IEGLTFQGLNSLEVCLKQRNNISKLTGAFWGLSKMHVLHLEYNSLVEVNSGSLYGLTALHQLHLSNNSIARIHR
KGWSFCQKLHELVLFSFNNLTRLDEESLAELSSLSVLRLSHNSISHIAEGAFKGLRSLRVLDLDHNEISGTIEDTS
GAFSGLDLSKLTILFGNLIKSVAKRAFSGLEGLEHLNLGGNAIRSVQFADFVKMKNLKEHHSDDSLCDCQLKW
LPPWLIGRMLQAFVTATCAHPESLKGQSIFSVPPESFVCDDFLKPQIITQPETTMAMVGKDIRFTCSAASSSSSP
MTFAWKDNEVLTNADMENFVHVHAQDGEVMEYTTILHLRQVTFGHEGRYQCVITNHFGSTYSHKARLTVNVLP
FTKTPHDITIRTTTMRLECAATGHPNPQIAWQKDGDTFPAARERRMHVMPDDDVFFITDVKIDDAGVYSCTAQ
NSAGSISANATLTVLETPSLVPLEDRVSVGETVALQCKATGNPPPRITWFKGDRPLSLTERHHLTPDNQLLV
QNVVAEDAGRYTCEMSNTLGTERRHSLSVLPAAGCRKDGTTVGIFTIAVSSIVLTSLVWVCIIYQTRKKSEY
SVTNTDETVPDPVPSYLSSQGTLSDRQETVVRTEGAGPQANGHIESNGVCPRDASHFPEPDTHSVACRQPKLCA
GSAYHKEPWKAIEKAEGTPGPHKMEHGGRRVVCSDCNTEVDCYSRQAFHPQPVSRDSAQPSAPNGPEPGGSDQEH
SPHHQCSRTAAGSCPECQGSLYPSNHRMLTAVKKKPMASLDGKGDSSWTLARLYHPDSTELQPASSLTSGSPER
AEAQYLLVSNHLPKACDASPESTPLTGQLPGKQRVPLLLAPKS

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FIGURE 2183

ACACTCGCTTCTGGAACGTCTGAGGTTATCAATAAGCTCCTAGTCCAGACGCCATGGGTCATTTACAGAGGAGG
ACAAGGCTACTATCACAGCCTGTGGGGCAAGGTGAATGTGGAAGATGCTGGAGGAGAAACCTGGGAAGGCTCC
TGGTTGTCTACCCATGGACCCAGAGGTTCTTTGACAGCTTTGGCAACCTGTCCTCTGCCTCTGCCATCATGGGCA
ACCCCAAAGTCAAGGCACATGGCAAGAAGGTGCTGACTTCCTTGGGAGATGCCATAAAGCACCTGGATGATCTCA
AGGGCACCTTTGCCCAGCTGAGTGAACTGCACTGTGACAAGCTGCAITGTGGATCCTGAGAACTTCAAGCTCCTGG
GAAATGTGCTGGTGACCGTTTTGGCAATCCATTTCCGGCAAAGAATTCACCCCTGAGGTGCAGGCTTCCTGGCAGA
AGATGGTGACTGGAGTGGCCAGTGCCCTGTCCTCCAGATACCACCTGAGCTCACTGCCCATGATGCAGAGCTTTCA
AGGATAGGCTTTATTCTGCAAGCAATACAAATAATAAATCTATTCTGCTAAGAGATCAC

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FIGURE 2184

MGHFTTEEDKATITSLWGKVNVEDAGGETLGRLLVVYPWTQRFFDSFGNLSSASAIMGNPKVKAHGKKVLTSLGDA
IKHLDDLKGTFAQLSELHCDKLHVDPENFKLLGNVLVTVLAIHFGKEFTPEVQASWQKMVTGVASALSSRYH

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FIGURE 2185A

TTTTTTTTTTTTTTGAGAAAGGGAATTTTCATCCCAAATAAAAGGAATGAAGTCTGGCTCCGGAGGAGGGTCCCCG
ACCTCGCTGTGGGGGCTCCTGTTTCTCTCCGCCGCGCTCTCGCTCTGGCCGACGAGTGGAGAAATCTGCGGGCCA
GGCATCGACATCCGCAACGACTATCAGCAGCTGAAGCGCTGGAGAACTGCACGGTGATCGAGGGCTACCTCCAC
ATCCTGCTCATCTCCAAGGCCGAGGACTACCGCAGCTACCGCTTCCCCAAGCTCACGGTCACTACCGAGTACTTG
CTGCTGTTCCGAGTGGCTGGCCTCGAGAGCCTCGGAGACCTCTTCCCCAACCTCACGGTCACTCCGCGGCTGGAAA
CTCTTCTACAACTACGCCCTGGTCTATCTTCGAGATGACCAATCTCAAGGATATTGGGCTTTACAACCTGAGGAAC
ATTACTCGGGGGGCCATCAGGATTGAGAAAAATGCTGACCTCTGTTACCTCTCCACTGTGGACTGGTCCCTGATC
CTGGATGCGGTGTCCAATAACTACATTGTGGGGAATAAGCCCCCAAAGGAATGTGGGGACCTGTGTCCAGGGACC
ATGGAGGAGAAGCCGATGTGTGAGAAGACCACCATCAACAATGAGTACAACCTACCGCTGCTGGACCACAAACCGC
TGCCAGAAAATGTGCCCAAGCACGTGTGGGAAGCGGGCGTGACCCGAGAACAAATGAGTGTGCCACCCCGAGTGC
CTGGGCAGCTGCAGCGCGCCTGACAACGACACGGCCTGTGTAGCTTGCCGCCACTACTACTATGCCGGTGTCTGT
GTGCCGTGCTGCCCGCCCAACACCTACAGGTTTGAGGGCTGGCGCTGTGTGGACCGTGACTTCTGCGCCAACATC
CTCAGCGCCGAGAGCAGCGACTCCGAGGGGTTTGATCCACGACGGCGAGTGCATGCAGGAGTGCCCTCGGGC
TTTCATCCGCAACGGCAGCCAGAGCATGTACTGCATCCCTTGTAAGGTCTTGCCCCGAAGGTCTGTGAGGAAGAA
AAGAAAACAAAGACCATTGATTCTGTTACTTCTGCTCAGATGCTCCAAGGATGCACCATCTTCAAGGGCAATTTG
CTCATTAACATCCGACGGGGGAATAACATTGCTTCAGAGCTGGAGAACTTCATGGGGCTCATCGAGGTGGTGACG
GGCTACGTGAAGATCCGCCATTCTCATGCCCTTGGTCTCCTTGCTCTTCTAAAAAACCTTCGGCTCATCTAGGA
GAGGAGCAGCTAGAAGGGAATTACTCCTTCTACGTCTCTGACAACCAGAACTGCAGCAACTGTGGGACTGGGAC
CACCGCCAACCCTGACCATCAAAGCAGGGAAAATGTACTTTGCTTTCAATCCCAAATTATGTGTTCCGAAATTTAC
CGCATGGAGGAAGTGACGGGGACTAAAGGGCGCCAAAGCAAGGGGACATAAACACCAGGAACAACGGGGAGAGA
GCCTCCTGTGAAAGTGACGTCTGCACTTTCACCTCCACCACCGTGAAGAATCGCATCATCAACCTGGCAC
CGGTACCGGCCCCCTGACTACAGGGATCTCATCAGCTTACCGTTTACTACAAGGAAGCACCTTTAAGAATGTC
ACAGAGTATGATGGGCAGGATGCCTGCGGCTCCAACAGCTGGAACATGGTGGACGTGGACCTCCCGCCCAACAAG
GACGTGGAGCCCGGCATCTTACTACATGGGCTGAAGCCCTGGACTCAGTACGCCGTTTACGTCAAGGCTGTGACC
CTCACCATGGTGGAGAACGACCATATCCGTGGGGCCAAAGTGAGATCTTGTACATTGCGACCAATGCTTCAGTT
CCTTCCATTCCCTTGGACGTTCTTTAGCATCGAACTCCTCTTCTCAGTTAATCGTGAAGTGAACCTCCCTCT
CTGCCCCAACGGCAACCTGAGTTACTACATTGTGCGCTGGCAGCGGCAGCCTCAGGACGGCTACCTTTACCGGCAC
AATTACTGCTCCAAAGACAAAATCCCCATCAGGAAGTATGCCGACGGCACCATCGACATTGAGGAGGTACACAGAG
AACCCCAAGACTGAGGTGTGTGGTGGGGAGAAAGGGCCTTGCTGCGCTGCCCAAACTGAAGCCGAGAAGCAG
GCCGAGAAGGAGGAGGCTGAATACCGCAAAGTCTTTGAGAATTTCTGCACTTCCATCTTCGTGCCAGACCT
GAAAGGAAGCGGAGAGATGTCATGCAAGTGGCCAACACCACCATGTCCAGCCGAAGCAGGAACACCACGGCCGCA
GACACCTACAACATCACCGACCCGGAAGAGCTGGAGACAGATACCTTTCTTTGAGAGCAGAGTGGATAACAAG
GAGAGAACTGTCAATTTCTAACCTTCGGCCTTTACATTGTACCGCATCGATATCCACAGCTGCAACCACGAGGCT
GAGAAGCTGGGCTGCAGCGCCTCCAACCTTCGTCTTTGCAAGGACTATGCCCGCAGAAGGAGCAGATGACATTCT
GGGCCAGTGACCTGGGAGCCAAGGCCTGAAAACCTCATCTTTTAAAGTGGCCGGAACCTGAGAAATCCCAATGGA
TTGATTCTAATGTATGAAATAAAATACGGATCACAAGTTGAGGATCAGCGAGAATGTGTGTCCAGACAGGAATAC
AGGAAGTATGGAGGGGCCAAGCTAAACCGGCTAAACCCGGGGAACCTACACAGCCCGGATTGAGGCCACATCTCTC
TCTGGGAATGGGTGCTGGACAGATCCTGTGTTCTTCTATGTCCAGGCCAAAACAGGATATGAAAACCTTCATCCAT
CTGATCATCGCTCTGCCGCTCGCTGTCTGTTGATCGTGGGAGGTTGGTGATTATGCTGTACGTCTTCCATAGA
AAGAGAAATAACAGCAGGCTGGGGAATGGAGTGTGTATGCCTCTGTGAACCCGGAGTACTTCAGCGCTGCTGAT
GTGTACGTTCTGATGAGTGGGAGGTGGCTCGGGAGAAGATCACCATGAGCCGGGAACCTGGGCAGGGGTGTTTT
GGGATGGTCTATGAAGGAGTTGCCAAGGGTGTGGTGAAGATGAACCTGAAACCAGAGTGGCCATTAAAACAGTG
AACGAGGCCGCAAGCATGCGTGAGAGGATTGAGTTCTCAACGAAGCTTCTGTGATGAAGGAGTTCAATTGTCAC
CATGTGGTGCATTGCTGGGTGTGGTGTCCCAAGGCCAGCCAACACTGGTCACTCATGGAAGTATGACACGGGGC
GATCTCAAAAGTTATCTCCGCTCTCTGAGGCCAGAAATGGAGAAATATCCAGTCTAGCACCTCCAAGCCTGAGC
AAGATGATTGAGTGGCCGGAGAGATTGCAGACGGCATGGCATACCTCAACGCCAATAAGTTCGTCCACAGAGAC
CTTGCTGCCCGGAATTGCATGGTAGCCGAAGATTTCACAGTCAAAATCGGAGATTTGGTATGACGGAGATATC
TATGAGACAGACTATTACCGGAAAGGAGGCAAGGGCTGCTGCCCGTGGCTGGATGTCTCTGAGTCCCTCAAG

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FIGURE 2185B

GATGGAGTCTTCACCACTTACTCGGACGTCTGGTCCTTCGGGGTCGTCTCTGGGAGATCGCCACACTGGCCGAG
CAGCCCTACCAGGGCTTGTCCAACGAGCAAGTCCTTCGCTTCGTTCATGGAGGGCGGCCTTCTGGACAAGCCAGAC
AACTGTCTTGACATGCTGTTTGAAGTATGCGCATGTGCTGGCAGTATAACCCCAAGATGAGGCCTTCCTTCCTG
GAGATCATCAGCAGCATCAAAGAGGAGATGGAGCCTGGCTTCCGGGAGGTCTCCTTCTACTACAGCGAGGAGAAC
AAGCTGCCCCGAGCCGGAGGAGCTGGACCTGGAGCCAGAGAACATGGAGAGCGTCCCCCTGGACCCCTCGGCCTCC
TCGTCTCCCTGCCACTGCCCCGACAGACACTCAGGACACAAGGCCGAGAACGGCCCCGGCCCTGGGGTGCTGGTC
CTCCGCGCCAGCTTCGACGAGAGACAGCCTTACGCCCACATGAACGGGGGCCGAAGAAGAGCGGGCCTTGCCG
CTGCCCCAGTCTTCGACCTGCTGATCCTTGGATCCTGAATCTGTGCAAACAGTAACGTGTGCGCACGCGCAGCGG
GGTGGGGGGGAGAGAGAGTTTTAAACAATCCATTACAAGCCTCCTGTACCTCAGTGGATCTTCAGTTCTGCCCT
TGCTGCCCCGGGAGACAGCTTCTCTGCAGTAAAACACATTTGGGATGTTCCCTTTTTTCAATATGCAAGCAGCTT
TTTATTCCCTGCCCCAAACCCCTTAAGTACATGGGCCTTTAAGAACCTTAATGACAACACTTAATAGCAACAGAGC
ACTTGAGAACCAGTCTCCTCACTCTGTCCCTGTCTTCCCTGTTCTCCCTTTCTCTCTCCTCTCTGCTTCATAAC
GGAAAAATAATTGCCACAAGTCCAGCTGGGAAGCCCTTTTTATCAGTTTGAGGAAGTGGCTGTCCCTGTGGCCCC
ATCCAACCACTGTACACACCCGCCTGACACCGTGGGTCAATTACAAAAAACACGTGGAGATGGAAATTTTACCT
TTATCTTTACCTTTCTAGGGACATGAAATTTACAAAGGGCCATCGTTTCATCCAAGGCTGTTACCATTTTAAACG
TGCCTAATTTTGCCAAAATCCTGAACCTTCTCCCTCATCGGCCCGCGCTGATTCTCTGTCCGGAGGCATGGG
TGAGCATGGCAGCTGGTTGCTCCATTTGAGAGACACGCTGGCGACACACTCCGTCCATCCGACTGCCCCCTGCTGT
GCTGCTCAAGGCCACAGGCACACAGGTCTCATTGCTTCTGACTAGATTATTATTGGGGGAAGTGGACACAATAG
GTCTTCTCTCAGTGAAGGTGGGGAGAAGCTGAACCGGC

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FIGURE 2186

MKSGSGGGSPTSLWGLLFLSAALSLWPTSGEICGPGIDIRNDYQQLKRLNCTVIEGYLHILLISKAEDYRSYRF
PKLTVITEYLLLFVRVAGLESIGDLFPNLTVIRGWKLFYNYALVIFEMTNLKDIGLYNLRNITRGAIRIEKNADLC
YLSTVDWSLILDAVSNNYIVGNKPPKECGDLCPGTMEEEKPMCEKTTINNEYNYRCWTTNRCQKMCPSTCGKRACT
ENNECCHPECLGSCSAPDNDTACVACRHYYYAGVCPACPPNTYRFEGWRCVDRDFCANILSAESSDSEGFVIHD
GECMQECPSGFIRNGSQSMYCIPCEGPCPKVCEEEKKTKTIDSVTSAQMLQGCTIFKGNLLINIRRGNNIASELE
NFMGLIEVVTGYVKIRHSHALVSLSLKLNLRILGEEQLEGNYSFYVLDNQNLQQLWDWDHRNLTIKAGKMYFAF
NPKLCVSEIYRMEEVTGKGRQSKGDINTRNNGERASCESDVLHFTSTTTSKNRIIITWHRYRPPDYRDLISFTV
YYKEAPFKNVTEYDGGDACGSNSWNMVDVLDPPNKDVEPGILLHGLKPWTQYAVYVKAVTLTMVENDHIRGAKSE
ILYIRTNASVPSIPLDVLSASNSSQLIVKWNPPSLPNGNLSYIYVRWQRQPDGYLYRHNYCSKD KIPIRKYAD
GTIDIEEV TENPKTEVCGGEKGPCCACPKTEAEKQAEKEEAERYKVFENFLHNSIFVPRPERKRRDVMQVANTTM
SSRSRNTTAADTYNITDPEELETEYPPFESRVDNKERTVISNLRPFTLYRIDIHSCNHEAEKLGCSASN FVFART
MPAEGADDIPGPVTWEPRPENSIFLKWPEPENPNGLILMYEIKYGSQVEDQRECVSRQEYRKYGGAKLNRLNPGN
YTARIQATSLSGNGSWTDPVFFYVQAKTGYENFIHLIIALPVAVLLIVGGLVIMLYVFRKRNN SRLNGVLYAS
VNPEYFSAADVVPDEWEVAREKITMSRELQGSFGMVYEGVAKGVVKDEPETRVAIKTVNEAASMRERIEFLNE
ASVMKEFNCHHVRL LGVVSQGOPTLVIMELMTRGDLKSYLRSRPEMENNVLAPPSLSKMIQMAIEADGMAY
LNANKFVHRDLAARNCMVAEDFTVKIGDFGMTRDIYETDYRKGKGLLPVRWMSPESLKDGVTFTTYS DVWSFGV
VLWEIATLAEQPYQGLSNEQVLR FVMEGGLLDKPDNCPDMLFELMRMCWQYNPKMRPSFLEI ISSIKEEMEPGFR
EVSFY YSEENKLPEPEELDLEPENMESVPLDPSASSSSLPLPDRHSGHKAENGPGPGVLVLRASFDERQPYAHMN
GGRKNERALPLPQSSTC

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FIGURE 2187

TAGCACTTCATAGACTGCTATCACGCATTCAATTTTTACTAGTACCTATTGAACACTAAGTTCCAGGCACTGGGCT
AGGCACTGGGATGGTGTGGTGAGCAAAAAGTACCAGTCCTGCCGTGGAGTTTGCTGGGGGAGACACATGTTACT
CAAAGAATCACACTAAGGATAGCAATTTATCTCAAAGCTGCAAGTTCCCTGCCATCTACATGTGCCCAGAGTCCCC
AAAATTGAGTGTCAAACAGAGGCTGGGTGACCTCCTGTCCAGGATTGCTCTCATCGTATGAATCGAAGTTTTTCAT
CTTAACGTGTTTTTTCTCCTGAGAATAGGCCAACCAATCAATGGCTCAGACAGATAAGCCAACATGCATCCCCG
CGGAGCTGCCGAAGATGCTGAAGGAGTTTGCCAAAGCCGCCATTAGGGTGCAGCCGAGGACCTCATCCAGTGGG
CAGCCGATTATTTTGGGCCCTGTCCCGTGGAGAGACGCCCTCCGGTGAGAGAGCGGTCTGAGCGAGTCGCTTTGT
GTAACCGGGCAGAGCTAACACCTGAGCTGTTAAAGATCCTGCATTCTCAGGTTGCTGGCAGACTGATCATCCGTG
CAGAGGAGCTGGCCAGATGTGGAAAGTGGTGAATCTCCCAACAGATCTGTTTAATAGTGTGATGAATGTGGGTC
GCTTCACGGAGGAGATCGAGTGGCTGAAGTTTTTAGCCCTTGCTTGCAGCGCTCTGGGAGTTACTATTACCAAAA
CTCTCAAGATAGTGTGTGAGGTCTTATCATGTGACCATAATGGTGGGTCGCCCCGGATCCCGTTCAGCACCTTCC
AGTTTCTCTACACGTATATTGCCAAAGTGGATGGGGAGATCTCTGCATCACATGTCAGCAGGATGCTAAACTACA
TGGAACAGGAAGTAATTGGCCCTGATGGTATAATCACAGTGAATGACTTTACCCAAAACCCAGGGTTCAGCTGG
AGTAAAGCACAAATTTTGGCAATTTTAAAGGAAGATACAGAGATGATTGTACTTCAGAATGACTGAAACCCATAT
ACCACCCAAAATCCATTTTCTTGTACAACCTGGTACACACTAATAAACAATTAAAAAAAAA

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FIGURE 2188

MAQTDKPTCIPPPELPKMLKEFAKAAIRVQPQDLIQWAADYFEALSGETPPVRERSERVALCNRAELTPELLKIL
HSQVAGRLLIRAEELAQMWKVVNLPTDLFNSVMNVGRFTEEIEWLKFLALACSALGVTITKTLKIVCEVLSCDHN
GGSPRIPFSTFQFLYTYIAKVDGEISASHVSRMLNYMEQEVIGPDGIITVNDFTONPRVQLE

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FIGURE 2189

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FIGURE 2190A

AAAATACTTGCCCTTTGGAAAAAATCATTCTGGCGTCCACATTGAGACTGGTTTAGAGGAGAGTAATACTGAAG
ACATGCCCCCCCCGAATCAAGGTAGCAATTGCGGAGATGAAAAGAAATGAGTCCAAAAGATGCTTAAATGTGACCA
TTGAACAGGATTTGACTCATTGGATATGAGGCCATGGAGCAGTGTCTGGCTAGGTGGATGGATGTTGGTGCTGTT
TAGTTAAATAGGAAACTGGAAGAGAAGCAGGCTTGCAAGAATGGTAATATTTTGGACGTGTAACCTGTCTGGCAA
GATGTTGAAGAGGTAAAGGAGGCAGCACAGCATCATGGCCCTTGGAGGCAGAAGCCGCTTTGATTTACTCAGAAC
ACCAAAATCAGTCTCCATTTTCTTGACTCAGACTACACCCAGAGATTGCTTCCTTCCCTGTGCTTCCTGGCCACT
TGCTACTCTAGCTAGGAAGATCTGCCTCCCTTAGCTGAAGTCTAAGATGTGTAGCTTATTGATGCCTCTCCTCTT
CTTGTTCTGCTGTTGCTGAATATAATGGGGATGCCAGGGCAGACATACCATTCAACTTGAATCTTCCTTACCCAC
TTTGATAGTCTTACATGTCATTGATACCTTGTTTTCTGGTACGCCTAAAAGGAGTAGAACCTCAAGTGGTATTT
AAAAGCTTAAAGAAAAGTCAAATTTTTACTTTTTTCTTCCCATCTGAGGCATGGATTTATTTTCTTTTAAAGAA
ATCCAAATTTTTAAAGAGAGGGATCTTATTTTAAACGAAGATCGATAATATCTACTATGTACTAAATGTCATT
CTTTAAAGTTGTTCCCTCATAATTTAGTAAATTTACTTCTTTTAAAAAAGGAAAGAGAGTGTGTTGCTT
ACAGCTTAACATCACAAACAATAAGTTTCTTCTCATCCATCTCCATTTATAAAGTAGTGTGACTGTCTTCTGAGC
ACAGTATTAAACCTGGACAGGGAGAGGGTGTGTAGAGAATGAGAGGGAAAGAGAGAGAATACCTACATATAA
GGTGACCTAAAGAAAAGCCTTTTACCCTTCGGAAGATCTTTTCATTTTCATTTTCTTTTTTCAAACACCAACT
TGTACCAGAGGGAAGATCTTTTTTAAAGCGTTTCACTAAAAATTTGTAAGGAAATAATGAGCTAGATAAAATAT
TACAGTGTGTTATTTAATGAATTTACTCATATTTAAATAATATCTAAAAAGAGTAATTTAGGAATATTGAGGCAA
TGAGACTTGAAGGTTATAAATAGTGGCAGTGAGAAAAGGAATATTATAGATAAGCTGTTGAAAAGAAAAGATGCT
AAGTTTTCTAGTGCTTCTTCTGTTTCCAAGGATTATAGAAATCGGAGTTTGTGTTGACCTGTTTCACAGGCATC
TCTTTTGTGACTCATTTGTGCTCTTCTTCTTAGGCTAATAGTCACCATTTATCATGGACGGTTGTCATGAGTGTG
AAGCACACTTAACCTGCTTCGTCAGAGGGTACTTGGCATCACCGGTGCACAGCTGGTGTCTAGCAGGAGACTAA
CTAGCTGACACACCGTGCTTTGTTAGCCTAATAATCTTATTTGTTAAAACTTGCCATTTGTTGGATTTTTCTATT
TTACCCCATTTATAAATCTTCTTATTGAGATCAGATGACTTCTGAATAGCATTTGCTGTATTTTTCCAAGGTAAAGA
AATCTTTTTTCAGATTTTTCTTTCTTTCTTTTAAATGTCAGAAATAGAAGAAATCTTTCTACCGACCTTGTCAG
GAGATGTCATGGTCATTCCATTAAATGGGACAATAATGCCTTGATGCTGTGCTTATTAATGGTACCTGCATTG
TAAACGAAAGCATGTTAACAGGAGAAAAGTGTTCAGTGACAAAGACTAATTTGCCAAATCCTTCAGTGGATGTGA
AAGGAATAGGAGATCAATTATATAATCCGGAACACATAAACGACATACTTTGTTTTGTGGGACAACCTGTTATTC
AGACTCGTTTCTACACTGGAGAACTCGTCAAAGCCATAGTTGTTAGAACAGGATTTAGTACTTCCAAAGGACAGC
TTGTTCTGTTCCATATTGTATCCCAAACCACTGATTTTAACTCTACAGAGATGCCTACTTGTTTCTACTATGTC
TTGTGGCAGTTGCTGGCATTGGGTTTATCTACACTATTATTAATAGCATTTTAAATGAGGTACAAGTTGGGGTCA
TAATTATCGAGTCTCTTGATATTATCACAAATTACTGTGCCCCCTGCACCTTCTGCTGCAATGACTGCTGGTATTG
TGTATGCTCAGAGAAGACTGAAAAAATCGGTATTTCTGTATCAGTCTCAAAGAATAAATATTTGTGGACAGC
TCAATCTTGTTTGTCTTGACAAGACTGGAACCTCTAACTGAAGATGGTTTAGATCTTTGGGGGATTCAACGAGTGG
AAAATGCACGATTTCTTTTACCAGAAGAAAATGTGTGCAATGAGATGTTGGTAAAATCCCAGTTTGTGCTTGTA
TGGCTACTTGTCATTCACCTTACAAAAATTGAAGGAGTGCTCTCTGGTGATCCACTTGATCTGAAAATGTTTGAGG
CTATTGGATGGATTCTGGAAGAAGCAACTGAAGAAGAAACAGCACTTCATAATCGAATTATGCCACAGTGGTTC
GTCCTCCCAAACAACTGCTTCTGAACTTACCCCTGCAGGAAACCAAGAAATGGAGCTGTTTGAACCTCCAGCTA
CTTATGAGATAGGAATTGTTGCGCAGTTCCCATTTTCTTCTGCTTTGCAACGTATGAGTGTGGTTGCCAGGGTGC
TGGGGGATAGGAAAATGGACGCCCTACATGAAAGGAGCGCCGAGGCCATTGCGCGTCTCTGTAAACCTGAAACAG
TTCTGTGCGATTTTCAAACGTTTTTGAAGACTTCACTAAACAGGGCTTCCGTGTGATTGCTCTTGACACAGAA
AATTGGAGTCAAACTGACATGGCATAAAGTACAGAATATTAGCAGAGATGCAATTGAGAACAACATGGATTTTA
TGGGATTAATTATAATGCAGAACAAATTAAGCAAGAACCCCTGCAGTACTTGAAGATTGCATAAAGCCAACA
TTTCGACCGTCATGGTCACAGGTGACAGTATGTTGACTGCTGTCTCTGTGGCCAGAGATTGTGGAATGATTCTAC
CTCAGGATAAAGTGATTATTGCTGAAGCATTACCTCAAAGGATGGGAAAGTTGCCAAAATAAATTGGCATTATG
CAGACTCCCTCACGCAGTGCAGTCATCCATCAGCAATTGACCCAGAGGCTATTCCGGTTAAATTGGTCCATGATA
GCTTAGAGGATCTTCAAATGACTCGTTATCATTTTGCAATGAATGGAAAATCATTCTCAGTGATACTGGAGCATT
TTCAAGACCTTGTTCTTAAGTTGATGTTGCATGGCACCCTGTTTGCCCGTATGGCACCTGATCAGAAGACACAGT
TGATAGAAGCATTGCAAAATGTTGATTATTTTGTGGGATGTGTGGTATGGCGCAAATGATTGTGGTGCTTTGA

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FIGURE 2190B

AGAGGGCACACGGAGGCATTTCTTATCGGAGCTCGAAGCTTCAGTGGCATCTCCCTTTACCTCTAAGACTCCTA
GTATTTCTGTGTGCCAAACCTTATCAGGGAAGGCGGTGCTGCTTTAATAACTTCCTCCTGTGAATTAGCACTAT
TTTCTATAGTTACTTATTCTCTGGATCATTTTATAATTTCCATATTAATTTCAAGTATGCTCGTGTATTCTTCA
GTGATTTCCACAATTGTGCATTTTATTCTTTGGTTTAAAGTACTGAAGCATATAATGAAAGTAATTGCTAAGTAGC
AGCTTAAAAATTCAATTATCCGATTGTATTTAACATCTTTAAGAGCATGATCATAAAGAGCTATTTTTGACACCC
CCCCCCTTTTAAACATTTAGAGTTAGTAAAGGTTTTATATCTCTTCTGTCCATATTGTTTTCAAAGGAATG
AGGTGTTTAGGTGGCTGGAAAAGCATTTGTAGGAAGTTAGATTTGAATATAGACAAGGTGGGTTATTCACGTTGA
GAAIGTTATTTGAAGAATGCCTGTGAAGCCAGGTGTGGGTTCTACTCAGTGCCATAGATAGACTGAGTCTTCTCT
CGTAGGTTACCATTACATAGTAATTTTGATTCTGAATTTACATTAAATTATTTGAGTTTATACAGACCTAAATT
TTAAATCTGTACATATATTATTTTGATGTATTAAGATGAATATTGCTGATTTAAATTTTATTTATGCACATACT
TAAAGGACAGAAATGTCTGGGAAAGTAATTGTTAAATAATGATATGTAACTTTTTAACTTTTTAAATAAATAACA
AGATTTTTAATGTGTGTCTCCCTCAGGGTTGTTTTAAAGTTTTTTTTCTCCCTCAAGTATAAATAGTGGTAACTAT
ATGTTTTGTATCTTCTAGCACCACTGCTGTAAAGCAATGCTGCAAATAATGCTTGAATACAAGTGGCTAAGCCA
ACAACAGAATAAAATACTTTTATAGTAGTTTTATAATCCTGAAATTCGAAAGCTTTCCCAATTGCACTTGCATCTA
AACAAAATGTTGCAGTTTTTACTCTATTTATTTTGTCCCATGTTTATGAAAGTCCTGCACAGTTTCAAAGGC
ATGGTAAATAATATATCAATGTTTATGTAGTCTGTTACAGAAACAGCTATAGATAACATTATCCAGTGAAGAGCA
AAATTCAAGCTTTAGAAAATATTCATGCATGCAATTTGACATATCTAAAAATAGGTTTTTGTATATTTATGGTG
GGAGGTGGTTGGGAACTTTTAACAAAATGGGGTGTTAATTTTTGTACAGTCTGTGGGCATTACACATTTTTAAT
GTATTAATTTGGTAATTATGTGTACATTAAATTAATAAAAGTTACTTCTAGTTATGATTGTGAATTCCTTAA
GACCTTGGATTTTTTAAAGTAACTTTATATCAGAAATGATACTGCATCTTTATATTTTTAAATTTGTATTGCTGC
TCAAGAATGGTACCCTCTTGTCAAAAAGGCATACATTCATAATTGTACATTCAGCATTGTAAATAATCTTATGAA
ACCTTTTTTGATTGAAGCTATTCAAAATAAAAATTTTAAATGAATGAAATAA

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FIGURE 2191

MSEIEEIFSTDLPDGMVPIPLNGTIMPCDAVLINGTCIVNESMLTGESVPVTKTNLPNPSVDVKGIGDQLYNPE
THKRHTLFCGTTVIQTRFYTGELVKAIVVRTGFSTSKGQLVRSILYPKPTDFKLYRDAYLFLCLVAVAGIGFIY
TIINSILNEVQGVIIIESLDIITITVPPALPAAMTAGIVYAQRRLKKIGIFCISPQRINICGQLNLVCFDKTGT
LTEDGLDLWGIQVRVENARFLSPEENVNCNEMLVKSQFVACMATCHSLTKIEGVLSGDPLDLKMF EAIGWILEEATE
EETALHNRIMPTVVRPPKQLPESTPAGNQEMELFELPATYEIGIVRQFPFSSALQRMSSVVARVLGDRKMDAYMK
GAPEAIAGLCKPETVPVDFQNVLEDFTKQGFRVIALAHRKLESKLTWHKVQNISRD AIENNMDFMGLIIMQNKLK
QEPPAVLEDLHKANIRTVMTGDSMLTAVSVARDCGMILPQDKVIIAEALPPKDGKVAKINWHYADSLTQCSHPS
AIDPEAIPVKLVHDSLEDLQMTYHFAMNGKSFVILEHFQDLVPKMLLHGTVFARMAPDQKTQLEALQNVDYF
VGMCGDGANDCGALKRAHGGISLSELEASVASPFTSKTPSISCVPNLIREGRAALITSSCELALFSIVTYSLDHF
IISILISSMLVLFFSDFHNCAFYSLV

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FIGURE 2192

CCTGCCGTTGGCGGCCTGAGTCCGCAGCGCCCTGCKCCACCCGCCCCGGACGTGGGGCCCAAGCCCCCGTGAAGA
TGGTGTCTGGATGATCTCCAGAGCCGTGGTGCTGGTGTTTGGAATGCTTTATCCTGCATATTATTCATACAAAG
CTGTGAAAACAAAAACGTGAAGGAATATGTTTCGATGGATGATGTACTGGATTGTTTTTGCTCTCTATACTGTGA
TTGAAACAGTAGCCGATCAAACAGTTGCTTGGTTTCCCTGTACTATGAGCTGAAGATTGCTTTTGTCAATATGGC
TGCTTTCTCCCTATACCAAAGGAGCAAGTTTAAATATATAGAAAATTCCTTCATCCACTTCTTTCTCAAAGGAAA
GGGAGATTGATGATTATATTGTACAAGCAAAGGAACGAGGCTATGAAACCATGGTAAACTTTGGACGGCAAGGTT
TAAACCTTGACGCKACTGCTGCTGTACTGCAGCAGTAAAGAGCCAAGGAGCAATAACTGAACGTTTAAAGAAGCT
TCAGTATGCATGATTTAACAACATCCAAGGTGATGAGCCTGTGGGACAAAGACCATAACCAACCTCTACCAGAAG
CMAAAAAGAAAAGTARCCAGCCCCCAGTGAATCAGCMGGTTATGGAATTCCACTGRAAGACGGRGATGWGRAAAC
AGATKAAGAAGCAGAGGGGCCATATTCAGATAATGAGATGTTAACCACACAAAGGGCTTCGAAGATCGCAAAGCAT
GAAATCTGTGAAAACCACCAAAGGCCGCAAAGAGGTGCGGTACGGGTCCTAAAATACAAAGTGAAGAAACGACC
ACAAGTGTATTTTGTATCTACACGTCAAATATCCCAAGACAGATTATGCTAAATACATCGACTTCATCTTCT
AACATGATAATTCAGGATTTACACATTAAATGATTATTTAAATTGTGGCAGTGATGGGGTTTACTTTTCATGAA
TTTAAATTGTTTTTATTTTCTGTAAACAATTGCTTCCAAATATTGACTACTAAAGGCAGTTCTGCAAGATGTACTA
AATATGTATATTAGAAATTATAGAAAATCATGTTGTCCGTTTTCAAATTCATCAACAGCCTAGAGTGCCTGAGAT
ATAAGATGAAACACAAATCCACAGTATACTTGAAAGGAGCCTTTTTACGGTTCAGGATAAATCAGCCTTTGTGAT
GTACTGTGTTTACCTCCTTTTGTGTTGTATCTGGTAATTAAAXTAGGGCCAGATTAGCAAGTGACATXACAA

2415/2682
FIGURE 2193

MVSWMISRAVVLVFGMLYPAYYSYKAVKTKNVKEYVRWMMYWIVFALYTVIETVADQTVAWFPLYELKIAFVIW
LLSPYTKGASLIYRKFLHPLLSSKEREIDDIYVQAKERGYETMVNFGROGLNLAATAAVTAAVKSQGAIATERLRS
FSMHDLTIIQGDEPVGQRPYQPLPEAKKKSXQPPVNQXVMEFHXTXMXKQXKKQRGHIQIMRC

2416/2682
FIGURE 2194

TCTACCTCCTAGCAAGTACTTTGTCTTGATCCTCACTGAGAAGGCCCCAGGGCAGCGGTCTTCTCCATCTCCGCT
GTTTTGGGGTCTTAGGGTACAGCCCAGGCGGTCACTGCCCACCTGCCAGGCTGCAGGGACAGTTGGGTGTGAGAA
TAACACTGGCTTTGGGTAGTGCCATGGCCAGGAGTGGGTTTCCCTGCGTCTCCTCGTCCCCGAGGGCGCCTGGGTC
CTCCCAGCTGACGGCAGTAAATCCACAGTGAGTTGGGGCGACTGTGAACTGGAATGCTGTTACTTTGATAATTA
CTTTCCAGCAGGTGTTTTCCCTCACAATGGTTTTGTTTTCTTTCTTCTGATCTGAGAAGACATGAACGTTTTCTC
TTCACCGCCGTGGGGTGTATTGACTGGTCCCCCATGGGCTGCTGGAAAGGCCCGGAGATGCATCTGTGGCCTGGG
GCCATCAAGATCAAAGAACCAGGAGGCCTGGGAGATGCAGCTGGATGGGGCGGCCTGCAGACCTGCCAGGGGGT
TTGAGGACCTCCCAGGTTTCCCACTGCGGAACAGGAGTGACTCTGGCTGCCAAGATACCTTCATGGTGTTCATG
ACAAGTGGAATCATTATTTTCAACCATTGAAGGGGGATGCAGGCAAGACACCTTCCCAGCTGCTCCTAGAGGGGA
CAAGCCAGGCCCTCTCTGCAGTCCCTCGGCAGCTCCGGAAGGACACAGTCAGGGGCCGGGCAAACACTTTGGCCAC
AGCCCCAAACAAGCGCCACCGTGGGAGAGGAGAGGCTGCTGTCACTGGTACCGGATGCAGACCCACCTGTCTG
CAGGCCACCCCCACCTCCCTGCAGCTTTGAGGCTGGCGGGGTCTGCTCCTGGGAATGGGGTGGGAGCCACAGGGA
CGACCCGGGGCGGGCTGATGTCTTCTTGGGGGCAGACCAGAGAGCTCAAGTTTCAGAGTCAGAATTAGGCACTT
GGAGCGTTTTTGCTGGCTTGCACTTCTTATTTTCTTATTTTAGAGCGCTTAAAAAATCCGGAATAATGGGGTTT
AAAAGAACTGTCTCTTTCAGTCTACATTTTGTTTAATACGCTTGAGCAATAAACGCTGACTTGAGACGTGAAA
AAAAAAAAAAAAA

2417/2682
FIGURE 2195

MHLWPGAIIKEFGGLGDAAGWGLQTLPGGLRTLPGFPLRNRSDSGCQDTFMVFM TSGIIIFNH

2418/2682
FIGURE 2196

CCCAAGGCTGCCCCCTCGGTCACTCTGTTCCCACCCTCCTCTGAGGAGCTTCAAGCCAACAAGGCCACACTGGTG
TGTCTCATAAGTGACTTCTACCCGGGAGCCGTGACAGTTGCCTGGAAGGCAGATAGCAGCCCCGTCAAGGCGGGG
GTGGAGACCACCACACCCTCCAAACAAAGCAACAACAAGTACGCGGCCAGCAGCTACCTGAGCCTGACGCCTGAG
CAGTGGAAGTCCACAAAAGCTACAGCTGCCAGGTCACGCATGAAGGGAGCACCGTGGAGAAGACAGTTGCCCCCT
ACGGAATGTTCA**TAG**

2419/2682
FIGURE 2197

PKAAPSVTLFPPSSEELQANKATLVCLISDFYPGAVTVAWKADSSPVKAGVETTTPSKQSNNKYAASSYLSLTPE
QWKSHKSYSCQVTHEGSTVEKTVAPTECS

2420/2682
FIGURE 2198

AGCACTTTTCATTGGACGAGCCAATCATTCTTCTACTGTAACCTGACCCAGGAACATTCTGTTAACCAACGAACAA
CTCGAGAGTGGGAGAAAAATAGTACATGATTACAGGCAAGGAATTGTTCCCTCCTGGTCTTACAGAAAAATGAATTG
TGGAGAGCAAAGTACATCTATGATTACAGCTTTTCATCCTGACACTGGTGAGAAGATGATTTTGTATAGGAAGAATG
TCAGCCCAAGGTTCCCATGAACATGACCATCACAGGTTGTATGATGACGTTTTACAGGACTACGCCGGCTGTGCTG
TTCTGGCAGTGGATTAAACCAGTCCTTCAATGCCGTGCTCAATTACACCAACAGAAGTGGAGACGCACCCCTCACT
GTCAATGAGTTGGGAACAGCTTACGTTTCTGCAACAACCTGGTGCCGTAGCAACAGCTCTAGGACTCAATGCATTG
ACCAAGCATGTCTCACCCTGATAGGACGTTTTGTTCCCTTTGCTGCCGTAGCTGCTGCTAATTGCATTAATATT
CCATTAATGAGGCAAAGGGAACTCAAAGTTGGCATTCCCGTCACGGATGAGAATGGGAACCGCTTGGGGGAGTCG
GCGAACGCTGCGAAACAAGCCATCACGCAAGTTGTGCTGTCCAGGATTCTCATGGCAGCCCTGGCATGGCCATC
CCTCCATTTCATTATGAACACTTTGAAAAGAAAGCCTTTTTGAAGAGGTTCCCATGGATGAGTGCACCCATTCAA
GTTGGGTTAGTTGGCTTCTGTTTGGTGTGTTGCTACACCCCTGTGTTGTGCCCTGTTTCCCTCAGAAAAGTTCCATG
TCTGTGACAAGCTTGGAGGCCGAGTTGCAAGCTAAGATCCAAGAGAGCCATCCTGAATTGCGACGCGTGTACTTC
AATAAGGGATTGTAAAGCAGGGAGGAAACCTCTGCAGCTCATTCTGCCACTGCAAGCTGGTGTAGCCATGCTGG
TGAGAAAAATCCTGTTCAACCTGGGTTCTCCAGTTACGGAACCTTTTTAAAGATCCACATTAGCCTTTTAGAAT
AAAGCTGCTACTTTAACAGAGCACCTGGCGTGGGCCAAGTGCTGATACTCCCTTACACTGAATCATGTTATGAT
TTATAGAAATACCTTTCTGTAGCTTTTATAGTCATTGTTTTTCAAAGACGATATACCAGCCCTCAGCCAGGTTT
TAAAAAGCACTGGTAGGCATAGAATAGGTGCTCAGTATATGGTCAGTAAATGTTCTATTGATTATCAATCAGTG
AAAAAGAAATCTGTTTAAATACTGAATTTTCATCTCACTCCCATTTGCAAATCAAGGAGATCTCAGCAGTGAAC
TGGGAAATACAAAAGCTCTGGGCTAATCTATAAAACTTACCCTGAAATATTAAGGGCAGTTTGCTTCTAGTTT
GGGGATTGCGCTAGCCCAATGAAGGTGATGAAGCTTTTGGATTGGAGGGTAAAAGCTCCTTCACACCCCTTCCA
AAAGTCAGTCACAGACCACTGCAACATGCCCTCCCTGCTGGATCATTATATACATTGAGATTGTGAGTGGATTGC
CTTGGTTGACTTTTTAATTTATTGTTTTTGTCTTATAAAGATGATAATCTTACCTTGCAATTATTGACTTTATA
TTCAATTATTTACATCAAATAATGAAATACTGAAATGTACAAATGTCAAATTTTGGAAAGTATATTCAATACCAA
TGCTGTATGAGTGGGCTGAATCCAGTTCATTGTTTTTTTTTGGTAAGAAGTGAGACTACAGTTCAGCTACCTA
CATGTCTTTTCTGTATCCTTATAGATCTCTTGGCTTTTCAAGAAAGATACAGTGATAATGTGTGTATGAATCAG
TCACAATGAATTTTACTTGAATATTGTATGTTGCATTCCACTTCATTTGAAAATAATGAAACCATGTACCACTGT
TTACATCATCTGTAGTGATTTATAGATAATATATTTAATATGACAGATTATGTTTCAACTCTGTAGATGTTTAA
CGTCATAGACAGTTGGCCCTCTGTATCCGTGAGCTCTATATCTGTGAATTCAACCAAGTTTGGATGGAAAAATTT
TTTTTTTTTTTTTTTTTGGAGACGGAGTCTCGCTCTGTACCCAGGCTGGAGTGCAGTGGCGTAGTCTCGGCTCA
CTGCAAGCTCCGCTCCTGGGTTACGCCGTTCTCCTGCCTCAGCCTCTCTGAGAAGCTGGGACTACAGGCGCCC
GCCACCACGCCCCGCTAATTTTTTGTATTTTAGTAGAGACGGGTTTCACTGTGGTCTCGATCTCCTGACCTC
GTGATCCGCCCCGCTTGGCCTCCAAGGTGCTGGGATTACAAGCGTGAGCCACCGCAGCCGCGCTGAAAATATTT
TCTAAAAAGATAAAAAATATACATAACGATGAAAAATAATACAAATTTAAAAACCAATACAGTATAACAACTATT
TACATAGTGCTTACATTGTATTAGGTGTTATAAGCAATCTAGAGATGATTTAGCAAGTATACAGGAGGATGTGCC
TAGGTTATATGCAAATACTGTGCCATTTTATATCAGGAACCTGAGCATCTGCAGATATTGGTATCGGAGGGCGGT
CCTGGAACCAAGCATCCACGGATACTGAGGGGTGACATTTTATGAAGTGTAGATCATTGTATTGAGAGATTGTAA
ATGAAAAAATATAGAAACTATTTAGTTTTGGTAGATTTTTTCTGACAATGTGACCAGACTGAATTCCTCAT
AAAGAAAAATGGCGTGCCTTGTGTCTGTGTTTCTCTTTTCTGAAAGGATTAATAGATCTGAAGCTTTGGGCC
ACTTAGAGCCTTAAAAA

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FIGURE 2199

MILIGRMSAQVPMNMTITGCMMTFYRTTPAVLFWQWINQSFNNAVVNVTNRSGDAPLTVNELGTAYVSATTGAVAT
ALGLNALTKHVSPLIGREFVFFAAVAAAANCINIPLMRQRELKVGIPVTDENGNRLGESANAAKQAITQVVVSRILM
AAPGMAIPPFIMNTLEKKAFLKRFPWMSAPIQVGLVGFCLVFATPLCCALFPQKSSMSVTSLEAELQAKIQESH
ELRRVYFNKGL

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FIGURE 2200

GCGAAAGAGAAAAAGGCTGGAGCTCCCGCCCCGGGGCTGTCAGATGGCTTGGGTTTCTGCGACGCGATTGGCTC
GCGGAGGGCAGAAATTACTCAGCAAACATGACTATTATTAGCTGCTTAGCAACAGCTCACCAAAGTAGAGAGACC
ACCCAGGTAGGCAACCCAGTGTGTGCATCCTCGGCTTCGGGGCAGCCTCTGAGAGCGCCAACCTTCTCGCATGCA
ATACTTCCATTAAGGAATGCTCCCCCTCCTTTCTCTCTTATTCTTTTCTTTTCAACAGTGTCTTCTTTTTGTGG
GATGCCTTTGCGCGCACACACGCGCGCGCASGCACACACACGAACATTTGCCTCGCGGTAGACACGGGGGGAAAT
GTWATATTTTTTTAAGCGCTTAAACAATTTCTGAAATTCCTCAAAGAAAAGCCTTTTCAGARGCACCTTGGCCTCA
AGCTGCAACAAATACTGGGARGTCCGGCTCGCATTCCCAGGCCTGCACCAATAATGACAGCGTGCTGGATARTGC
GCCAGTGTGTGCCAGATTTTTTTTTTCTCTCTCTTTCTTTTATAACTAAAGGGAAGACTTAGGCTCTTGCAAG
GAACAACGCCTCGCATTAAGATAAACAGAATGAAAGTTAAAGAGGAAAGCAAGGACGTTGGGAAAAGCCATCTT
TCTTAAATCCGTCTGCCCCCAGCCGCTTTCTCC

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FIGURE 2201

MTIISCLATAHQSRETTQVGNPVCASSASGQPLRAPTFSHAILPLRNAPPPFSLIPFLFNSVFFLWDAFARTHAR
AXHTHTNICLAVDITGGNVIF

2424/2682
FIGURE 2202

CATCCATCCAAATTTGAAGATCCTATATTAGTTCCTCTTCAAGAATTTGCATGGCATCAATATCTACAGGAGAAA
AAAAGGGAACTCAAAAATGAAACCTGGGAATATTCTTCCTCTGTGATTTCTTTTGTTAATGGTCAGTTTCTGGGT
GATGCATTGGATCTGCAGAAATGGGCCCACGAGGTGTGGGATATAGTTGACATTAAACCCTCTGCACTTTATGAC
GCACTCACTGAGGATTTTTCCGCTAAGTTCTTAAGAGACACCAAGCTATACTGTGATGTGTGTCCCAAAACATGT
AAAAATTTTCAGGTCTTGTGCACAGGAAAAGCAGGGTTTTCTCAACGTGGCATAAGACTACATTACAAAAATTCC
ATTTTTCATCGAATAGTACAGAATGGCTGGATACAAGGAGGGGATATAGTGTATGGAAAAGGAGATAATGGAGAG
TCGATTTATGGTCCAACATTTGAAGATGAAAACTTTTAGTTCTCATAATAAAAGAGGAGTACTTGGAAATGGCC
AACAAAGCCGTCACAGCAACGGGTCACAATTCTATATCACACTGCAAGCAACTCCTTATCTAGATAGAAAATTT
GTGGCTTTTGGGCAACTGATTGAAGGAACAGAAGTGCTTAAACAAGTAGAATTAGTTCCAACACAGAATGAAAGA
CCAATACATATGTGTAGAATTACTGACAGTGGAGATCCTTATGCTTGATTTTCATATCAATATTTTCTGTGATAA
TTTATTACTTTGTATCTGATCAGCTGTTTGTGGATTTAATTAAAAAGTACTTGATAAATTGTAAAAA

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FIGURE 2203

GCCCACGCGTCCGCCCACGCGTCCGGCCCTGCAGACAAGCGTGCCGTGCGTGCTTGTGGCCAAGGGAAGGAAGAG
CTGGTTGATCCACAGATAGCTCCTTCCTCCCCGCCCTTCCTTTTGTGGAGGTCCCAGGATCTGTGTTACACA
GACATCTGGGGGAAGAAAAGGAGCAGGAACTACCCCGCACAGAGTTAAGCAGGAAACAACAACATCATGCA
AAAACCCTGCAAAGAAAACGAAGGAAAGCCAAAGTGCAGCGTGCCAAAGAGGGAGGAAAAACGCCCGTATGGAGA
ATTGA

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FIGURE 2204

AHASAHASGPADKRAVRACGQGKEELVDPQIAPSSPPLPFCLEVPGSVFTDIWGKKRSRKLPRTELSRKQQQHHHA
KTLQRKRRKAKVQRAKEGGKTPVWRI

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FIGURE 2205

ACTTCAGTTGGGCTGAGGCGGAGGAGCCGCCGCTTCTGACCTCGCTCTGGCTCCGGTGCGCGCGGCTGAGCGCGT
GCGAGGCCCCGCGCGTCGGGCAGGGGCGGCGGCGGCCACTGCGCGCCGCCCTGAGGAGCGCCCCAGCGGCGGCGC
GACTGCGGCTGAGGAGAGAGCCGGCTCCGGGCCTCCGCGTCCCTGCTCCCCCGGCCCCCGCCTCCTCGGGG
GGCGGCGGCGACTACGGACTGGTGACGGCCGGCTGCGGCTTCGGGAAGGACTTCCGTAAGGGCCTCCTCAAGAAG
GGCGCGTGCTACGGGGACGACGCGTGCTTCGTGGCCCGGCACCGTTCCGCGGACGTGCTCGGGGTTGCAGATGGT
GTAGGAGGCTGGAGAGACTATGGAGTTGATCCATCTCAATTCTCAGGGACTTTAATGCGGACGTGTGAACGTTTA
GTAAAAGAAGGACGGTTCGTACCTAGTAATCCCATTTGAATTCTCACCACAAGCTACTGTGAGTTGCTGC

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FIGURE 2206A

TTAAATAAGTAGGGATTGTTTAAAAAAAAGCTGTAATATGTTATCTGGGGGTGGATGATCCTGGTGTAGTTAA
AGCTCTCAGTGATGTCTGTGCTGGGACTTCCGGGTTCTGTGGACTTTTCTCCCAAACCTCACCAGGAACCTGA
CAATGGCGAAGCCCTTCCCGAATCCATCCCATCAGCTCCTGGGACACTGCCTCATTTTCATAGAGGAGCCAGATGA
TGCTTATATTATCAAGAGCAACCCTATTGCACTCAGGTGCAAGCGAGGCCAGCCATGCAGATATTCTTCAAATG
CAACGGCGAGTGCGTCCATCAGAACGAGCACGTCTCTGAAGAGACTCTGGACGAGAGCTCAGGTTTGAAGGTCCG
CGAAGTGTTCATCAATGTTACTAGGCAACAGGTGGAGGACTTCCATGGGCCCCGAGGACTATTGGTGCCAGTGTGT
GGCGTGGAGCCACCTGGGTACCTCCAAGAGCAGGAAGGCCCTCTGTGCGCATAGCCATTTTACGAAAAAATTTGA
ACAAGACCCACAAGGAAGGGAAGTTCCCATGAAGGCATGATTGTACTGCACTGCCGCCACCAGAGGGAGTCCC
TGCTGCCGAGGTGGAATGGCTGAAAAATGAAGAGCCATTGACTCTGAACAAGACGAGAACATTGACACCAGGGC
TGACCATAACCTGATCATCAGGCAGGCACGGCTCTCGGACTCAGGAAATTACACCTGCATGCCAGCCAACATCGT
GGCTAAGAGGAGAAGCCTGTCCGCCACTGTTGTGGTCTACGTGAATGGAGGCTGGTCTTCTCGGACAGAGTGGTC
AGCCTGCAATGTTTCGTGTGGTAGAGGATGGCAGAAACGTTCCCGACCTGCACCAACCCAGCTCCTCTCAATGG
TGGGGCCTTTTGTGAGGGAATGTGAGTGCAGAAAAATAACCTGCACTTCTCTTTGTCTGTGGATGGGAGCTGGGA
AGTGTGGAGCGAATGGTCCGTCTGCAGTCCAGAGTGTGAACATTTGCGGATCCGGGAGTGCACAGCACCACCCCC
GAGAAATGGGGGCAAATTTCTGTGAAGGTCTAAGCCAGGAATCTGAAAACCTGCACAGATGGTCTTTGCATCCTAGA
TAAAAAACCTCTTCATGAAATAAAACCCCAAAGCATTGAGAATGCCAGCGACATTGCTTTGTACTCGGGCTTGGG
TGCTGCCGTCTGTGGCCGTTGCAGTCTGGTCAATTGGTGTCAACCCTTTACAGACGGAGCCAGAGTGAATATGGCGT
GGACGTCACTGACTCTTCTGCATTGACAGGTGGCTTCCAGACCTTCAACTTCAAAACAGTCCGTCAAGGTAACCTC
CCTGCTCCTGAATTTCTGCCATGCAGCCAGATCTGACAGTGAGCCGGACATACAGCGGACCCATCTGTCTGCAGGA
CCCTCTGGACAAGGAGCTCATGACAGAGTCTCACTCTTTAACCCCTTTGTCCGACATCAAAGTGAAAGTCCAGAG
CTCGTTTATGGTTTTCCCTGGGAGTGTCTGAGAGAGCTGAGTACCACGGCAAGAATCATTCCAGGACTTTTCCCCA
TGGAACAACACAGCTTTAGTACAATGCATCCCAGAAATAAAATGCCCTACATCCAAATCTGTCTCACTCCC
CACAAGGACAGAAGTGAAGACAAGTGGTGTCTTTGGCCATTTAGGGGGGCGCTTAGTAATGCCAAATACAGGGGT
GAGCTTACTCATACCACAGGTGCCATCCCAGAGGAGAATTCTTGGGAGATTTATATGTCCATCAACCAAGGTGA
ACCCAGCTCCAGTCAGATGGCTCTGAGGTGCTCCTGAGTCTGAAGTCACCTGTGGTCTCCAGACATGATCGT
CACCACCTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTCAGTTCTGAGCATTGGAATATCCATTTAAAGAA
GAGGACACAGCAGGGCAAATGGGAGGAAGTGATGTGAGTGAAGATGAATCTACATCCTGTTACTGCCTTTTGGGA
CCCCCTTTCGTGTCTGTCTCCTGGACAGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATACAGACTGTGC
CGTGAAGCAACTGAAGGTGGCGGTTTTTGGCTGCATGTCTGTAACTCCCTGGATTACAACCTTGAGAGTTTACTG
TGTTGGACAATACCCCTTGTGCATTTTCAGGAAGTGGTTTTAGATGAAAGGCATCAAGGTGGACAGCTCCTGGAAGA
ACCAAATTTGCTGCATTTCAAAGGGAATACCTTTAGTCTTCAGATTTCTGTCTTGATATCCCCATTCTCTG
GAGAATTAAACCATTTCACTGCCTGCCAGGAAGTCCCGTTCTCCCGGTGTGGTGCAGTAACCGGCAGCCCTGCA
CTGTGCCTTCTCCCTGGAGCGTTATACGCCCACTACCACCCAGCTGTCTGCAAAATCTGCATTGGCAGCTCAA
AGGCCATGAACAGATCTCTCAAGTGCAGACATCAATCTAGAGAGTGAACGAGAAACCATCACTTTCTTCGCACA
AGAGGACAGCACTTTCCCTGCACAGACTGGCCCCAAAGCCTTCAAATTCCTACTCCATCAGACAGCGGATTTG
TGCTACATTTGATACCCCCAATGCCAAAGGCAAGGACTGGCAGATGTTAGCACAGAAAAACAGCATCAACAGGAA
TTTATCTTATTTTCGCTACACAAAGTAGCCCATCTGCTGTCAATTTTGAACCTGTGGGAAGCTCGTCATCAGCATGA
TGGTGTCTTACTCCCTGGCCTGTGCCCTTGAAGAGATTGGGAGGACACACAGAACTCTCAAACATTTTCA
ATCCCAGCTTGATGAAGCCGACTTCAACTACAGCAGGCAAAATGGACTCTAGTCCACTTCTCCCATGAGACAGA
GTGATGGCCAGCTTGGGGACATTTGCTTTAAATGGGAAAGAGGCCGCTTCTGCCAGTGGCGTTGGGGGAATTC
AGCCTTCATTTATAATCAGTGAGATTCCCTGTTGAAGAACTAAATTTATATAGGTAAACATGTTAATAGGG
AAGAGTACAAGCTCTCTTACATATAAGAGGGCTCTACTATCTCCTTGGAAATCCACATTTGGGTTAACTCCTCAGA
TTTGGAGTGGCAAGGATAAAAGTGAGGGCAGAAGTAGCTGTGGGAAAAGATGAGCTATGATAATGCTGGGAAGGC
AGAGATTGATTAAAGTGCATGCTTTGAAATAGGTTTTTAATGATGTGCCCAAAGGGCCAGCTGATTCTGTACTA
GATTGTGAGAGTTTTCTACCAACTGGCATCTGTGATGTGAGAGATCATTGTAAAAATGGCTTTTAGACGTGAAAC
AGGGTTGCCAACCATTGTATGACTTCAACAACGTCAAGGAGGGCATTAGAAATTTAGAAATCTGAGCACATCAC
ACCAGCACCAGCTCCCTGTCTCTTCTAGCCACTTAATGGAGACACAATGGAGAGGTAAGACAGACCACAACTAG
TTCTTATAGTGTACTCCACCTTTTACTTTTTTCTGAGACAAATCTACCTTATTCTTTCTTCTCTTCTTCTTACC

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FIGURE 2206B

CCTTGCAGTAGGGAGGTATCAAGGAGCATAATTAACCTTGTCATACGGAAAGTTGTTTTTCTAACACAACAAA
GTGGGACCATCTCTATTCCCATCTAAGCCACTCAAATTGCTGAGTGTCTATTAGAACACAGCTTATTACATGGATA
TGGGGACAGGAGAGATTAAAGCAGGTTCAAAAACACATGAAGTGCAGATGCCATAGGCCTCAAATCAGCTGTAAT
TCTAGGAGACACGTGTTGATCTAGTTATCTAACATTGTTGTTATAAGAAAATGAGTTTACTGCATTTTTCAATCC
AGATTCTTGAAATTGTCTAACATGTGGGTACTGTGTCAACAAAATCTCTCAGTAAGGCTATATGTGATCCTCA
TTTTGCCTCTTGGGAAATTAGCAGATAGTCTTTGCTCTAAATGATATCTGAGTAAATAGACTTGAGGAATCCTCT
ACCACAGTGTCCCTGAAACCACATGCATCATTAGGAAGCCTTACCCTGTGACTATTAGCCTCCCTGAATATG
CTTCTCTATAGAACCACTAACATATGGCTATTGCTCTATGATTTTTTTTTTTTACATTAGGAGGCAGTGATATT
GTGGAAGATTGAAATCCACAGATAATTCATGACCCTCATCTTATCACTTTACTCCATCTTTTTATCCTATTAAAT
TATTTTTGACAAGATGTCTGGTAGACTAAAGGTGAACAGATTTGCTCTTGCTCATCTTCTGGTGGATATTTTAA
CTTGCTATTACAAATCAGGACAACCAAAGTCAAGGACCCAGATGAACCACAAGGCAGCTAGTCAGCTACTTAGAG
GTGGTTACATTGAAATAAAAAGTAGTCAGGGAATGGGGAGGTGGGGAGTTGGGGAGTACTTGGCAGTTGGGAT
ATGATCCATTTTTTAAACAAGTTTTTGTAGATCCCTTGTAATAATAATAATAATGTTGTGAATCTCCATGC
CAAGTGAAAAGGCTAAAGATGAGTTGAATTTGTGATACCATGGGTAAGGCATGGAAGAACTCTTGAATGTGTT
GGCCATTTTCTCTAACTAACATGTGGTATGTATGGTCCCTATATTAGATAGAAGTCTTGTACATGTAATTCA
AAAGCATCTCGCTTTTCTCAGGAACCAAAGGCTTATGATGTAGGACAAAGAAATCATCTTAGAACTGTCAAGCAT
ATTTTCACAATACCATGTCAAGATCAGGAAAACACCCTTTTGCTAGTGTGCTTAACTTATTTATTTCTTCTAGGA
AACAATAGATAAACAGCATGAAAATGTAATCATCTGGCATCACTGATAGAATTTCTGAAAGAGAAAGAGAAGTA
GATGGTCAACCAGTCACTAGTTGGTTGGCATGAGGTGGTGTGCAGAGGAAAGCTGCATTCACTATTGAGTAAAAA
CTTGAGAAAGCACATTATAGAGCTTATGTTGGAATCCATCTTGAGGATTTTTGTTTTAACTGTCTTTAGCAT
TTTCCCTCTTCCCTTCTAATGGGCATTATAATTGTTTCACTACTCTGTGAATCTACATAGGTCTTTTTTTTTAG
ATGTTTGATACATTTTAAGTATTTTTAAATAGATGAAAATCTAAATGATTTTCCCTCAAATCTATCTAGATTAT
TTTAAGATGAGACAAGATTATTGTCAATCCCTGAATGTCTGGAGTTACCTCCCATGGATTTTTTTTTCTTTGGC
CTGGGTTTTATAACAACCTGAACATCATATCATATAGGATAACAAAGGAGGAAGTTAACTTAATTCACCTCAGA
CTTCAGCCTAAGATTCAATCAAATTCATCCTTCAGCCTGTCTTGTCTTCTTCTTATGTTTCTTTACTTATTGCT
GCTAGGATCTACATAGGATTTCTATAGAAATGTATGAAATCTGTGGTCACTGCATGTCAGGATTGCACAGTAT
GTTACAATACAATTTCAAAGAGAACCACATTTGTGAGATTACAGACCAAGGTGTGGTGGAGGAGGTAGAATTG
CAGATCAGATAAAAAGTGAGCTTACACTTGAACCTTAGTTATTCATCTGTGACCTAAATTTAGTCTATTGTAATAT
GTGCTGTGCACAACACAAATACCCCTCTTGAAAGAGATTTACTCATCTATCCAAGCACTTAATTTGGAATTTTA
TTGTCTTATTGCAAAATGAAACAAAATTAAGGTGGCCTCGAGTACTTGGTAAGTTACTTAAATTTTACAAAA
ATATCCCACTCAATGCCAAATCTTTCAGTCTCAAAGGCATTTAAGTCCAATAGTCATGCTTTAAATATGGCTTT
AAATTATGCCACCAAATGGTGCACCTTCACAGATTACCCAGACTGTAGCATCATAAAGTTAATTTACAGTTTTTA
CAACATTGCTTCTACATTCTTACTGGTTTACATTAATAATCCTTTAAGCCAAAAGGAAGCTTGCTCTATGGATTTA
AATGCAAACTTCATTTACCAGTGCAGGAAGTCTCATAAACTCAGATGTACTCCACAAAAATTTTATTGGCCTT
TTTGTAAGAGATGAAAAGAATTGACACAGTCTCTTTAAAGAGAAGAATTTTTATTATTATTTTATCTCCA
ACTGCAGGTGGTGTCTTTTGCCAAGGTCTCTGTATTTTTCTTTCAGTTGTCTTTGGGAGGGGATGTTAAGTCAA
TCACTAAAACAGGGTTCTCTTGGATTAAAGTCTGGATTATTGCAACTATTTCTTTGAGAAACATTCTCAG
CATCAGGATTGATAACAAATGTAGATGATTAATAATAGGATAATTGGTTTTAGATAATATCTTCTACTGCCAAC
TTCTGGCAAATTTACCTGTGAATTTCAAATGTTATAAAATCTTGTATATGCTTTTGTTTTTCTTTTAGCCAT
TTTCTCTTCAATTTCTTAGTCCCTCTGCCCTCTGTAAATGTGTGAGTGATATAGCTATCAGATGTATTGAAGGC
AAAGTTCTCGCAGAGGTCTCTGTTCCAGCTCTGTAAAGTCAAGGAATCGTGAAGGAGCTGAGAAATCTTCTC
TCCGGCCCACTGTCTGTGGCCCATTTGTCATTGTTTCTCATGAAACATTGCAGAGTTTGAATCCTCAGTAACCT
CATTGACTGGATTAGAGGTGATGGCCACAGCAAATGGGAGAGCAAATGTTGGCTACAGAGAATGACACAATTT
TATTCGCTTTGGTGTAGTTGCCATAGTGTGATTTTGAATAATCGATGCTTTAGCCAAAAGCTGAATGACCACC
GTTTCCGTAGTTTCCACTGTTTGTCTGCATAGAATTTTCTGAACTACAAGCAAAAATGTATTTGTCCAATGT
CACAAAAGTGAAATGTTACTAATCTT

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FIGURE 2207

MILVLVKALSDVCAGTSGFLLDFSSQTSPTDNGEALPESIPSAPGTLPHFIEEPDDAYIIKSNPIALRCKARPA
MQIFFKCNGEVWHQNEHVSEETLDESSGLKVREVFINVTRQQVEDFHGPEDYWCQCVAWSHLGTSKSRKASVRIA
YLRKNFEQDPQGREVPIEGMIVLHCRPPEGVPAAEVEWLKNEEPIDSEQDENIDTRADHNLIIIRQARLSDSGNYT
CMAANIVAKRRSLSATVVVYVNGGWSSWTEWSACNVRCGRGWQKRSRTCTNPAPLNGGAFCEGMSVQKITCTSLC
PVDGSWEVWSEWSVCSPECEHLRIRECTAPPPRNGGKFCEGLSQESENCTDGLCILDKKPLHEIKPQSIENASDI
ALYSGLGAAVVAVAVLVIGVTLYRRSQSDYGVDVIDSSALTGGFQTFNFKTVRQNSLLLNSAMQPDLTVSRTYS
GPICLQDPLDKELMTESSEFNPLSDIKVKVQSSFMVSLGVSEAEYHGKNHSRTFPHGNNHSFSTMHPRNKMPYI
QNLSSLPTRTTELRTTGFGHLGGRLVMPNTGVSLIPHGAIPPEENSWEIYMSINQGEPSLQSDGSEVLLSPEVTC
GPPDMIVTTPFALTIPHCADVSEHWNHLLKRTQQGKWEVMSVEDESTSCYCLLDPFACHVLLDSFGTYALTG
EPITDCAVKQLKVAVFGCMSCNSLDYNLRVYCDNTPCAFQEVVSDERHQGGQLLEEKLLHFKGNTFSLQISVL
DIPPFLWRIKPFTACQEVFPRVWCSNRQPLHCAFSLERYTPTTTQLSCKICIRQLKGHEQILQVQTSILESERE
TITFFAQEDSTFPAQTGPKAFKIPYSIRQRICATFDTPNAKGKDWQMLAQKNSINRNLSYFATQSSPSAVILNLW
EARHQHDGDLDSLACALEEIGRTHTKLSNISESQLDEADFNYSRQNGL

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FIGURE 2208

GAAACAATGATTGCCAGGAAGGTCACCTTTTCAGCACCCACAGCCTCGGCAACCAGCACATATACCAGCGAAGCTCC
TCCATGTTGTCTTTCAGCAACACTGACAAGAAGGCCAAGGTGGGTCTGGAGGCCTGTGGGAGAGCCCAGTCAGCC
ACCCCCGCCAAACCCACAGACGGCCTCTACACCTACTGGAGTGCTGGAGAAGACAGCCAGTCTGTACAGAACAGC
AGCAGCTTCCACAACCTGGTACTCATTCAACGATGGCTCTGTGAAGACCCAGGCCCAATTGTTATCTACCAGACT
CTGGTGTACCCAAGAGCTGCCAAGGTTTACTGGACATGTCCAGCAGAAGACGTGGACTCTTTTGAGATGGAATTC
TATGAAGTCATTACTTTCTCCTCCTAACAACGTACAAATGGAGCTCTGTGGACAAATTCGGGACATAATGCAGCAA
AATCTGGAGCTGCACAACCTGACCCCCAACACAGAATACGTGTTTAAAGTTAGAGCCATCAATGATAATGGTCCT
GGGCAATGGAGTGATATCTGCAAGGTGGTAACACCAGATGGACATGGGAAGAACCGAGCTAAGTGGGGCCTGCTG
AAGAATATCCAGTCTGCCCTCCAGAAGCACTTCTGAGCCCCCTTCAGAGCAGGAAACAACCTCAGACTCATCAGAA
AGTAGACATATACACACATATATGTATGTATATTTTTCTCACCACATTCTTCAAGGAGGTTGTAGACAAATGT
TTCCATGACCTCTCAGCTTTCCAACAGGAATCTTGTAAAGAGCTAATAAAAGGAAATACCTGAAAAAAAAAAAAA
AAAAAA

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FIGURE 2209

ETMIARKVTFSTHSLGNQHIYQRSSSMLSFSNTDKKAKVGLEACGRAQSATPAKPTDGLYTYWSAGEDSQSVQNS
SSFHNWYSFNDGSVKTPGPVIVYQTLVYPRAAKVYWTCPAEDVDSFEMEFYEVITSPPNNVQMELCGQIRDIMQQ
NLELHNLTPTNEYVFKVRAINDNPGQWSDICKVVTPDGHGKNRAKWGLLKNIQSALQKHF

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FIGURE 2210

ATGGACGTCAGGCTCATCTGCACCACCGTACCCAAGATGGCCTTCAACTACTTGTCTGGCAGCAAGTCCATTTCT
ATGGCTGGCTGTGCCACACAAATTTCTTCTGTGTATCACTGCTTGGCTCTGAATGCTTTCTGTTGGCTGTTATG
TCTTATGACTGCTACATTGCCATTTGCCACCCTCTAAGATACACCAATCTCATGAGACCCAAAATTTGTAGACTT
ATGACTGCCTTCTCCTGGATCCTGGGCTCTACAGATGGAATCATTATGCTGTAGCCACATTTCTTCTCCTAC
TGTGGGTCTCGGGAAATAGCCCACTTCTTCTGTGAGTTACCTTCCCTACTAATCCTCTCATGCAATGACACGTCA
ATATTTGAAAAGGTTATTTTCATTTGCTCTATAGTAATGCTTGTTTTCCCTGTTGCAATCATCATTGCTTCCTAT
GCTGGAGTTATTCTGGCTGTCAATTCACATGGGATCTGGAGAGGGTCGTCGCAAAGCTTTACGACCTGTTCTCT
CACCTCATGGTGGTGGGAATGTTCTATGGAGCAGGTTTGTTCATGTACATACAGCCACATCTGATCGCTCCCA
ACGCAGGACAAGCTGGTGTCTGTATTCTACACCATCCTCACTCCC

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FIGURE 2211

TGTCGACAGACAGCACCAATGTCGCTCATGGTCGTCAGCATGGCGTGTGTTGGGTCTTCTTGCTGCAGGGGGC
CTGGCCACATGAGGGAGTCCACAGAAAACCTTCCCTCCTGGCCACCCAGGTCCCCTGGTGAAATCAGAAGAGAC
AGTCATCCTGCAATGTTGGTCAGATGTCAGGTTTGAGCACTTCCCTTCTGCACAGAGAGGGGAAGTATAAGGACAC
TTTGACCTCATTGGAGAGCACCATGATGGGGTCTCCAAGGCCAACTTCTCCATCGGTCCCATGATGCAAGACCT
TGCAGGGACCTACAGATGCTACGGTTCTGTTACTCACTCCCCCTATCAGTTGTCAGTCCCAGTGACCCCTCTGGA
CATCGTCATCACAGGTCTATATGAGAAAACCTTCTCTCAGCCCAGCCGGGCCCCACGGTTTTGGCAGGAGAGAG
CGTGACCTTGTCTGACGCTCCCGGAGCTCCTATGACATGTACCATCTATCCAGGGAGGGGGAGGGCCCATGAACG
TAGGTTCTCTGCAGGGCCCCAAGGTCAACGGAACATTCCAGGCCGACTTTCCTCTGGGCCCTGCCACCCACGGAGG
AACCTACAGATGCTTCGGCTCTTTCCGTGACTCTCCCTATGAGTGGTCAAACCTCGAGTGACCCACTGCTTGTTTC
TGTCACAGGAAACCCCTTCAAATAGTTGGCCTTCACCCACTGAACCAAGCTCCAAAACCGGTAACCCACAGACCTT
GCATGTTCTGATTGGGACCTCAGTGGTCAAAATCCCTTTCACCATCCTCCTCTTCTTTCTCCTTCATCGCTGGTG
CTCCAACAAAAAAATGCTGCTGTAATGGACCAAGAGCCTGCAGGGAAACAGAACAGTGAACAGCGAGGATTCTGA
TGAACAAGACCATCAGGAGGTGTCATACGCATTAATTGGATCACTGTGTTTTACACAGAGAGAAATCACTCGCCC
TTCTGAGAGGGCCCAAGACACCCCCAACAGATACCAGCATGTACATAGAACTTCCAAATGCTGAGCCCAGATCCAA
AGTTGTCTTCTGTCCACGAGCACCACAGTCAGGCCTTGAGGGGATCTTCTAGGGAGACAACAGCCCTGTCTCAA
ACCGGGTTGCCAGCTCCCATGTACCAGCAGCTGGAATCTGAAGGCATCAGTCTTCATCTTAGGGCATCGCTCTTC
CTCACACCACGAATCTGAACATGCCTCTCTCTTGCTTACAAATGTCTAAGGTCCCCACTGCCTGCTGGAGAGAAA
ACACACTCCTTTGCTTAGCCCACAATTCTCCATTTCACTTGACCCCTGCCACCTCTCCAACCTAACTAGCTTAC
TTCTAGTCTACCTGAGGCTGCAATCACACTGAGGAACACAAATCCAAACATACAAGAGGCTCCCTCTTAACA
CAGCACTTAGACACGTGCTGTTCCACCTCCCTTCAGACTATCTTTAGCCTTCTGCCAGCAGTAAACTTATAAA
TTTTTTAAATAATTCAATGTAGTTTTCCCGCCTTCAAATAAACATGTCTGCCCTCA

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FIGURE 2212

MSLMVSMACVGFFLLQGAWPHEGVHRKPSLLAHPGPLVKSEETVILQCWSDVRFHFLLHREGKYKDTLHLIGE
HHDGVSKANFSIGPMMQDLAGTYRCYGSVTHSPYQLSAPSDPLDIVITGLYEKPSLSAQPGPTVLAGESVTLSCS
SRSSYDMYHLSREGEAHERRFSAGPKVNGTFQADFPLGPATHGGTYRCFGSFRDSPYEWSNSSDPLLVSVTGNPS
NSWPSPTIEPSSKTGNPRHLHVLIGTSVVKIPFTILLFLLHRWCSNKKNAAVMDQEPAGNRTVNSEDSDEQDHQE
VSYA

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FIGURE 2213A

CCGGCTTTTGGCTGGGAGCCAGAGCAGGAGGCAGAGCCCGGGGAAGCTCGGAGCACTCAGGACGCCGCGCGC
CCTTCCCCGCCCTCCCTGACCAGGAGCAGCTCGTCCAGGCGCCAGCCGAGGCCCCAGCCAGTGGGAGCAA
GTCATAGAGAAACAATTGAGAGACAGAGAGACGGAGCGCGCTTTCTGCTCAGTCCTGAAAAGTGAGCCGCTCCC
GGGTTTGCAACCTCAAGCTTCGCAGCAGCGCGCGCGGCTGCCGGGAAGGAGGCAGGTGCAGGTGCAGGAGGG
AGGCGGCTCTGGGCTCCGCGCCTGGGTCTTGGCCATGGCCTCGGTCTGGGGAGCGGCAGAGGGTCTGGAGGGCT
GAGCAGTCAACTCAAATGCAAGTCCAAGAGGAGGAGGAGGCGGAGGTCCAAGCGGAAAGATAAAGTAAGCATATT
GTCAACCTTCTCGTCTCTTTCAAGCACCTGAGTCTTGGCATCACAAACACGAGGATGACGACACCCTCAGTAC
CAGCAGCGCGGAGGTGAAGGAGAACCACAACGTGGGCAACCTGGCCGCGCGGCCACCGCCCTCCGGGGACCGGGC
CCGGGGCGGCGCGCCCGCGCGCAAGAGGAAGCGGCCCTGGAGGAGGGGAATGGGGGCCACTTGTGCAAACTGCA
GCTGGTCTGGAAGAGCTGTCTGTGGTGGTGGCGCCCAAGAACGCGCTGGTGCAGCTGCACGAGCTGAGGCCGGG
CCTGCAGTACCGACAGTGTCTGCAGACGGGCCCCGGTGCATGCCCGGTCTTCGCGGTAGCGGTGGAGGTGAACGG
GCTCAGCTTCAGGGCACAGGCCCCACCAAGAAGAAGGCCAAGATGCGCGCGGCGGAGCTGGCACTCAGGTCTTT
CGTGCAGTTCCCCAACGCCTGCCAGGCGCACCTGGCCATGGGCGGGGGCCCCGGGCCCCGGCACGGACTTCACCTC
CGACCAGGCCGATTTCCCCGACACGCTCTTCCAGGAGTTCGAGCCCCCGCGCGCGCGCCCCGACTCGCGGGAGG
CCGCCCCGGGGACGCGCGCTTCTGTCCGCGGCTACGGGCGACGCGCGCTGCTGTGCCGCGCGCTGGACCTGGT
GGGCCCCGACCCCCGCCACCCCCGCGGCCCGGGCGAGCGCAACCCGTGGTGTCTGTAACCGCTGCGCGCCGG
GCTGCGCTACGTGTGTCTGGCAGAACC GGCCGAGCGCGCGCGCGGAGCTTCGTGATGGCCGTGAGCGTGGACGG
CAGGACGTTTCAGAGGCTCGGGGCGCAGCAAGAAGCTGGCCCCGGGTTCAGGCCGCGCAGGCCGCACTGCAGGAGCT
GTTTCGACATCCAGATGCCCGGCCACGCGCCCGGCAGGGCCAGGAGACGCCAATGCCGAGGAATTTCGACACTC
CATATCCCAGCTGGTACACAGAAGTTCGCGAGGTGACGACGGACCTCACGCCATGCACGCCCGCCATAAAGC
GCTGGCAGGAATCGTACGACAAAGGCTGGATGCTCGGCAGGCGCAGGTCTGTGGCCCTGTCTCGGGACCAA
GTGCATCAGCGGCGAGCACCTCAGTGACCAGGGGCTGGTGGTGAATGACTGCCACGCGGAGGTCTGGCCCCGGC
GGGCTTCTGCACTTCTCTACACGCAGCTGGAGCTGCACCTGAGCAAGCGCGCGGAGGACTCAGAGCGATCGAT
ATTCTGCGGTTAAAGAAGGTGGCTACCGGCTGCGAGAGAATCCTCTTCCATCTCTACGTGAGCACCTCCCC
CTGTGGAGACGCAAGACTCCACTCTCCCTACGAGATCACACAGACCTGCACAGCAGCAAAACACCTCGTCAGGAA
GTTCCGCGGGCACCTGCGCACCAAGATCGAGTCCGGGAAGGGACGGTCCCCGTGCGTGGCCCCAGCGCAGTGCA
GACCTGGGACGGCGTCTGCTGGGGGAGCAGCTGATCACCATGTCTGACGACAGATCGCCAGGTGGAACGT
CCTGGGGTGCGAGGGCGCGCTCCTGTCCCACTTCGTGGAGCCCGTGTACCTGCAGAGCATCGTGGTGGGCGACCT
GCACCACAGGGCCACCTCGCACGCGTCTGAGCCACCGCATGGAGGGTGTGCGCCAGCTGCCCGCTCCTACCG
GCACAACCGGCTCTCCTCAGCGGCTGAGTGACGCGAGGCGCGCCAGCCGGGAAGTGCAGCCCCCTTCAGCAT
GAACTGGGTCTGGGACGCGGACCTGGAGATTATCAACGCCACCACTGGGCGGAGGAGCTGTGGGGGCCATC
CCGGCTCTGCAAGCACGTGCTGTCTGCACGGTGGGCGCGGCTGTATGGCAGGCTGAGCACACGGACACCCAGCCC
TGGAGACAGCCCTCCATGTACTGTGAGGCCAAGCTGGGGGCGCACACCTACCAGTCTGTGAACAGCAGCTGTT
CAAGGCCTTTCAGAAGGCTGGCCTGGGCACCTGGGTGAGGAAACCACCGGAGCAGCAGAGTTTCTACTGACTCT
CTAGGCTGCGGGCTCCTGGCTGCTGGAGCTGAGCGGGACGCTGGAGGGATGGGACCGTGTCTGGGGGGCGACGTG
GCGGGTGGCCGGTTCCCTGCATTCTGTTTTACTTTGGTGTCCAGAAACACGCGAGTGTGCAATGTTTGGACGAG
CAACAACACAAATTCAGAACGTGCCTCTTTCCAGATCGCTGGCCCCAGAACCCTGTCCCCACACCCAGGGGCAC
ACGCACCGTTGAGTTAGCGCCGACTCTTCTGTGGAGTCTGAGGGAGGGGCTCCATTACGGCAAAGGGGTTTTAG
CTGCAGCCTTGAAGGAGGCACCGACACGACACACAGGAGGAGTACGCTCAGGCCCCGTCCCTGCACCCACCC
CTGCGTGCCTCTTGGTGTGTGGGGTCTCACTAGCTTGGGGGCGACATGAAGATAAGCCACAAATGAAGAG
AAAAGCCATGCCACCCAGCCCGAGAGAAACCAATAAGAATCTCTATTATTTTCACTATTCTGTTTAGTTTTT
ATACTCCACCTCTTTCAAAAAAGATTTAAGATGTACGACATTACCGAACACCTAAATAGAACAGAGAAACGA
AAGCCATTCCACAAAGTGAAGGAACAGTTTCAAAAACCCCTGCGAGGCAGAGTTAAGACCTGTGACGTGGGGAG
CCTGGAACACCTGGCCCACGCTGCTGCAGATGTGGGGAGCCTGGAACACCCGGGCCACGCGTGTGCAGATG
TGGGGAGCCTGGAACACCCGGGCCACGCGTGTGCAGATGTGGGGAGCCTGGAACACCCGGGCCACGCGTGT
GTAGATGTGGGGAGCCTGGAACACCTGGCCCACGCGTGTGCAGATGTGGGGAGCCCGGAACACCTGGCCCAT
GCCTGTTCACTCGTCATGGCGTTTGGTTTATGGTGGCGGATACTAAGAGCCACTGAGGTCTGGGTTGTGTGAGG
GTTAGCTACCACCTATAACCTCCCTACCAGSTAATAAGGAGACCAAGTCTTTGATCAAATTCTGATTTTTTAAC

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FIGURE 2213B

TAAATTTTCATTAGAAAGCAAGCACAAAATAAAATCAAAACAACCTTTACCTTCA

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FIGURE 2214

MASVLGSGRGSGGLSSQLKCKSKRRRRRRRSKRKDKVSILSTFLAPFKHLSPGITNTEDDDTLSTSSAEVKENRNV
GNLAARPPPSGDRARGGAPGAKRKRPLEEGNGGHLCKLQLVWKKLSWSVAPKNALVQLHELRFGLQYRTVSQTGP
VHAPVFVAVEVNGLTFEGTGPTKKKAKMRAAELALRSFVQFPNACQAHLAMGGGPGPGTDFTSQADFPDTLFO
EFEPPAPRPGLAGGRPGDAALLSAAYGRRRLLCRALDLVGTPATPAAPGERNPVLLNRLRAGLRYVCLAEPAE
RRARSFVMAVSVDGRTFEGSGRSKKLARGQAAQAAALQELEDIQMPGHAPGRARRTPMPQEFADSIQSLVTQKFRE
VTDLTPMHARHKALAGIVMTKGLDARQAQVVALSSGTCISGEHLSDQGLVVNDCHAEVVARRAFLHFLYTQLE
LHLSKRREDSERSIFVRLKEGGYRLRENILFHLYVSTSPCGDARLHSPYEITTDLHSSKHLVRKFRGHLRTKIES
GEGTVPVVRGPSAVQTDGVLLEQLITMSCTDKIARWNVLGLQGALLSHFVEPVYLQSIIVVGSLLHHTGHLARVMS
HRMEGVGQLPASVYRHNRPLLSGVSDAEARQPGKSPFMSMNWVGSADLEIINATTGRRSCGSPRLCKHVLSARW
ARLYGRLSTRTPSPGDTPSMYCEAKLGAHTYQSVKQQLFKAFQKAGLGTWVRKPPEQQQFLTL

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FIGURE 2215

ATTTCATGTTATACTTAATAAAACAAAACATACCTGTATACACACACATTCACTCACATTGAAGATGCAAGATGA
AGAAAGATACATGACATTGAATGTACAGTCAAAGAAAAGGAGTTCTGCCCAAACATCTCAACTTACATTTAAAGA
TTATTCAGTGACGTTGCACTGGTATAAAATCTTACTGGGAATATCTGGAACCGTGAATGGTATTCTCACTTTGAC
TTTGATCTCCTTGATCCTGTTGGTTTCTCAGGGAGTATTGCTAAAATGCCAAAAGGAAGTTGTTCAAATGCCAC
TCAGTATGAGGACACTGGAGATCTAAAAGTGAATAATGGCACAAGAAGAAATATAAGTAATAAGGACCTTTGTGC
TTCGAGATCTGCAGACCAGACAGTACTATGCCAATCAGAATGGCTCAAATACCAAGGGAAGTGTTATTGGTTCTC
TAATGAGATGAAAAGCTGGAGTGACAGTTATGTGTATTGTTGGAAAGAAAATCTCATCTACTAATCATACATGA
CCAACTTGAAATGGCTTTTATACAGAAAAACCTAAGACAATTAAACTACGTATGGATTGGGCTTAACCTTTACCTC
CTTGAAAATGACATGGACTTGGGTGGATGGTTCTCCAATAGATTCAAAGATATTCTTCATAAAGGGACCAGCTAA
AGAAAACAGCTGTGCTGCCATTAAGGAAAGCAAAATTTTCTCTGAAACCTGCAGCAGTGTTCCTCAAATGGATTG
TCAGTATTAGAGTTTGACAAAATTCACAGTGAAATAATCAATGATCACTATTTTTGGCCTATTAGTTTCTAATAT
TAATCTCCAGGTGTAAGATTTTAAAGTGCAATTAAATGCCAAAATCTCTCTCCCTTCTCCCTCCATCATCGACA
CTGGTCTAGCCTCAGAGTAACCCCTGTTAACAACCTAAAATGTACACTTCAAAATTTTTACGTGATAGTATAAAC
CAATGTGACTTCATGTGATCATATCCAGGATTTTTATTCTGCTGCTTATTTTATGCCAAATGTGATCAAATTATGC
CTGTTTTTCTGTATCTTGCCTTTTAAATTTCTTAATAAGGTCCTAAACAAAATTTCTTATTTTCTAATGGTTGAA
TTATAATGTGGGTTTATACATTTTTTACCCTTTTGTCAAAGAGAATTAACCTTGTTCAGGCTTTTGCTACTCT
TCACTCAGCTACAATAAACATCCTGAATGTTTTCTTAAAAAA

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FIGURE 2216

MQDEERYMTLNVQSKKRSSAQTSQLTFKDYSVTLHWYKILLGISGTVNGILTTLISLILLVSQGVLLKCQKGSC
SNATQYEDTGDLKVNGTTRNISNKDLCASRSADQTVLCQSEWLKYQGKCYWFSNEMKSWSDSYVYCLERKSHLL
IIHDQLEMAFIQKNLRQLNYVWIGLNFTSLKMTWTWVDGSPIDSKIFFIKGPAKENSCAAIKESKIFSETCSSVF
KWICQY

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FIGURE 2217

AGCAGTGGCCCAAAGAGGAGCAGCAGACAAGAGTGCAGTGGTGGCTGCCGCCGCACCAGCCTCAGTGGCAGATGA
CACACCACCCCCCGAGCGTCGGAACAAGAGCGGTATCATCAGTGAGCCCCCTCAACAAGAGCCTGCGCCGCTCCCG
CCCGCTCTCCCACTACTTCTTTTGGCAGCAGTGGTGGTAGTGGCGGTGGCAGCATGATGGGCGGAGAGTCTGC
TTGACAAGGCCACTGCGGCTGCAGCCTGGCCTTCCCTGTTGGCCAATGGGATGACCTGGCGGCGGCC**ATG**GCGGT
GGACAAAAGCAACCCTACCTCAAAGCACAAAAGTGGTGCTGTGGCCAGCCTGCTGAGCAAGGCAGAGCGGGCCAC
GGAGCTGGCAGCCGAGGGACAGCTGACGCTGCAGCAGTTTGCAGTCCACAGAGATGCTGAAGCGCGTGGTGCA
GGAGCATCTCCCGCTGATGAGCGAGGCGGGTGCTGGCCTGCCTGACATGGAGGCTGTGGCAGGTGCCGAAGCCCT
CAATGGCCAGTCCGACTTCCCCTACCTGGGCGCTTTCCCCATCAACCCAGGCCTCTTCATTATGACCCCGGCAGG
TGTGTTCTGGCCGAGAGCGCGCTGCACATGGCGGGCCTGGCTGAGTACCCCATGCAGGGAGAGCTGCCTCTGCC
ATCAGCTCCGGCAAGAAGAAGCGGAAACGCTGCGGCATTGTGCGCGCCCTGCCGGCGGCGCATCAACTGCGAGCA
GTGCAGCAGTTGTAGGAATCGAAAGACTGGCCATCAGATTTGCAAATTCAGAAAATGTGAGGAACTCAAAAAGAA
GCCTTCCGCTGCTCTGGAGAAGGTGATGCTTCCGACGGGAGCCGCCTTCCGGTGGTTTCAG**TGA**CGGCGGCGGAA
CCCAAAGCTGCCCTCTCCGTGCAATGTCACCTGCTCGTGTGGTCTCCAGCAAGGGATTGGGGCGAAGACAAACGGA
TGCACCCGTCTTTAGAACCAAAAATATTCTCTCACAGATTTTCATTCTGTTTTTATATATATATTTTTTGTGTC
GTTTTAACATCTCCACGTCCCTAGCATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2218

MAVDKSNPTSKHKSGAVASLLSKAERATELAAEGQLTLOQFAQSTEMLKRVVQEHPLMSEAGAGLPDMEAVAGA
EALNGQSDFFPYLGAFPINPGLFIMTPAGVFLAESALHMAGLAEYPMQGELPLPSAPARRSGNAAALCAPCRRRIN
CEQCSSCRNRKTGHQICKFRKCEELKKKPSAALEKVMLPTGAAFRWFQ

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FIGURE 2219

CATTTGCTATGAATATTCTCTATAACAAAGCAAGACAAATTTAGCAGCACTTCATTGCATCTGGATGGGGGAGAG
AGCTGGACAATTTCTTGCTAACAAGAGATGGTTAACTGCCCTCACCTCAGCCGTGAATTTGACACCTCGCATC
CGGGGCAACACCTGCTTCTGCTGTGACCTCTACAACCTGTGGCAACCGGGTGGAGATCACTGGTGGGTACTACGAA
TACATCGATGTGAGCAGTTGCCAAGATATCATCCACCTCTACCACCTGCTCTGGTCTGCCACCATCCTCAACATT
GTTGGCCTGTTCTGTTGAAAATACCCATCCAACAGTTTCTTACTATGCTCATCCCCAAGTGGCATCCTACAATACC
TACTACCATAGCCCTCCTCACCTGCCACCATAATTCTGCTTATGACTTTTACGATTCCGGTGTCTTTCCATCCTCC
CCTCCCTCTGGACTTTCTGATGAGCCCCAGTCTGCCCTCTCCCTCACCCAGCTACATGTGGTCTCAAGTGCACCG
CCCCGTTACTCTCCACCCTACTATCCACCTTTTGAAAAGCCACCACCTTACAGTCCCTAAAGAGGAATGCCTGCT
GGCTATTGAGATTATTGTGGCTTTTGTATTTCTGCTTCAGTGAAGTGTGTAGGGTACAAAATTTAAAGTGTGAC
TCTTATGCATAAAGTTTTACAATGGCCTGCCAGGCTAGGGAAAGATAGGGACGAAGCTTATTCATTATTAGTGCA
GAGCAGGGGTGGTCAAGCTGAACGCAGCACAGAAGGGCAGCTCACATTCTCTAAGCAAGACTGGGGAGCCAGCCC
AGCAAGAAGCTTGTGGACTTGCATTACCCTATGCTCCACCTCTGTATTACAGCAGAAGTGTGGTTGCCATCTTT
TTCACCTTTATGTAAAGGAGTGTGGCCTCGGGCCCTTGGCAGATTGCCACCCAGCACCTAGGTTGAAGCACCTG
GTTTATAGGCCCTATCTTTCCCTACCCCTAAAGTCAGTCCCTAAGGACAATTTCCAGCTGATGGGGCTACACAG
TAGTTCCAATACAGAGAGTTCTGGCTAAGATTTGTTTGCTTGTGTCTGGATGTTGAAAAAGACTGCCCGTATCT
CTTACTCCTTCTCTCTGCTGAGTATTGTAAAAATGGCTGTTGTGATCACTCAGCTCAGCTTTTGTATTGGTAC
CTCCTAAAGGAAAAAGTGCAATATTCTTGATCTTTCAGTAGTGGGGAACAGGATGTATTGTTCCGGAAAACTGA
AATACACAGCAACATGTGAGATGTTTTAAGTAGATCACTTAGGAGACAGTGGTTCTACTACATGTTGCATTATTA
CAAAATACATTTGCTACAGGAGATATAAATCTTATGGTTGTAATTCAGAGTTTAAAAATGTTATAAATTAGGTTT
TTGGGTCGIGATATGAATTGTTACTAATCTTTGTGACTATTTAATCTTCAAATATTGTGCTTAACCCAGCAATC
CGCACGTATCCTGCACCCACCCCAAAAGAGTCATCTGTATTTTAAAGCCACTGGTCTTATCGGTCTTTTGTCT
GTTGAGACCAGTCATGACAGCATTCAAGATTATGAAAGTGTACAATGCCGCTTCAAGTCTGCAAAACCTCAAAC
GTAGCCAACTTGACAAATATTTAAGTGTACGGCAGATTTAAATCCATCTGGCACACCGTGGTAGGTATTGTGTA
CAGTTCTTTAATTACACATAGCTTTAAACCATCAACCTGATGAGTTTAAAGCTTTTGACCCATGCCTTCACTT
CAGAATGAACACCTTCATTGTGATCTTATGTTAACCTGAGAATTGATTTAAAGGAAGATTGATAATCCTATACTT
TATAACGTAAAAATACAGGGGCTACAGGAGGGTACCTAATTAGACAGTTCTCCAAACACAGAACACACTGGAA
AATTTTCCGGCCAATTTTGCTACCTCCCAACTTGATGGATTAGAGGTAGCGCATATGCTGGTGTCTCCCATCTACC
TTGTAGACACTTAGCCATCAAGAATCAAGGCACAAGAAGTGCACCTCTCTCATTACAGTAAATGTTTGCAAGATA
TTCAGTTTAACTTTACGATCATGAATGTTCTTATCCAGATTTTGAATCCGAAAACTATAATCCTTTTATGTTA
TACAAAATTACTATGATTTTTTACAGTTCTGAGCATATTAATTTCTACTGGATTTCAAAAAGAGACTAATACCC
AACTGACTAACTAAACAAATATCAACTTGTAATACTCAATGAATTTTTTTGCCATTTACATTTGACCGTTGGCTT
TAGTGAATGTCCATATTTAATTTTTTAAGGCACCATTACACAGTTTATCCTACATTTATCACATTTCTTAAAGTG
TTAAGATTCTATGGCTCATTCTATGATTTTTTCTTACTTTACAAAATAACCTGAAACAGTATAGATTTGTAAAC
ACTTAATTTGAGCAGCTTTTTTATTACATTGAATTATATAAAGTGCATGTACCTTAGAAAAATTAGTATTGCT
GCTTTACTCTTTTGCAAAACATTTGCTGTAATGAATGGATTGTATTCCAATATGTATCTTGACTGCATTTTGT
AATATTTACTGCTTTATTCCTAATCTGCTTTAAAGTACTGAACTGGGCATGAAACATTAAATATTAATCCAGA
AACTGTATAAAGTGGATGTTGCTTAAATCTGTATCACTGCCATGTTGAAAATTACAGACTGCTTTTGTGATGTTT
CAAATGAATAAACTATCCTCCCTCGTT

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FIGURE 2220

MVNCPHLSREFCTPRIRGNTCFCCDLYNCGNRVEITGGYYEYIDVSSQDIIHLYHLLWSATILNIVGLFLGIIT
AAVLGGFKDMNPTLPALNCSVENTHFTVSYAHPOVASNTYYHSPPHLPPYSAYDFQHSGVFPSSPPSGLSDEP
QSASPSPSYMWSSAPPRYSPPYYPFEKPPPYSP

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FIGURE 2221

CCACGCGTCCGGCACCGGCAGCACC**ATG**TTGCTCATGGTCGTCAGCATGGCGTGTGTTGGGTTCTTCTTGGTCCA
GAGGGCCGGTCCACACGTGGGTGGTCAGGACAAGCCCTTCCGTCTGCCTGGCCCAGCGCTGTGGTGCCTCGAGG
AGGACACGTGACTCTTCGGTGTCACTATCGTCATAGGTTTAAACAATTTTCATGCTATACAAAGAAGACAGAATCCA
CGTTCCCATCTTCCATGGCAGATTATTCCAGGAGAGCTTCAACATGAGCCCTGTGACCACAGCACATGCAGGGAA
CTACACATGTGCGGGTTCACACCCACACTCCCCACTGGGTGGTCGGCACCCAGCAACCCCGTGGTGATCATGGT
CACAGGAAACCACAGAAAACCTTCCCTCCTGGCCCCACCCAGGTCCCCTGGTGAATCAGGAGAGAGAGTCATCCT
GCAATGTTGGTTCAGATATCATGTTTGGACACTTCTTTCTGCACAAAGAGGGGATCTCTAAGGACCCCTCAGCCCT
CGTTGGACAGATCCATGATGGGGTCTCCAAGGCCAATTTCTCCATCGGTCCCATGATGCTTGGCCCTGCAGGGAC
CTACAGATGCTACGGTTCGTACTCACACCCCTATCAGTTGTCAGCTCCCAGTGATCCCCTGGACATCGTGGT
CACAGGTCCATATGAGAAAACCTTCTCTCTCAGCCCAGCCGGGCCCCAAGTTTCAGGCAGGAGAGAGCGTGACCTT
GTCCTGCAGCTCCCGGAGCTCCTATGACATGTACCATCTATCCAGGGAGCGGGGAGCCCATGAACGTAGGCTCCC
TGCAGTGCGAAGGTCAACAGAACATTCCAGGCAGATTTCCCTCTGGGCCCTGCCACCCACGGAGGGACCTACAG
ATGCTTCGGCTCTTTCCGTCACTCTCCCTACGAGTGGTCAGACCCGAGTGACCCACTGCTTGTCTGTACAGG
AAACCCCTCAAGTAGTTGGCCTTCACCCACAGAACCAAGCTCCAAATCTGGTAACCCACAGACCTGCACATTCT
GATTGGGACCTCAGTGGTCATCATCCTCTTCATCCTCCTCCTCTTTCTCCTTCATCTCTGGTGTCCAACAA
AAAAAATGCTGCTGTAATGGACCAAGAGCCTGCAGGGAACAGAACAGCCAACAGCGAGGACTCTGATGAACAAGA
CCCTGAGGAGGTGACATACGCACAGTTGGATCACTGCGTTTTACACAGAGAAAAATCACTCGCCCTTCTCAGAG
GCCCCAAGACACCCCTACAGATACCATCTTGACACGGAACCTCCAAATGCTAAGCCCAGATCCAAAGTTGTCTC
CTGCCCC**TGA**GCACCCACAGTCAGGCCTTGAGGACGTCTTCTAGGGAGACAACAGCCCTGTCTCAAAACCGAGTTG
CCAGCTCCCATGTACCAGCAGCTGGAATCTGAAGGCGTGAGTCTTCATCTTAGGGCATCGCTCCTCCTCACGCCA
CAAATCTGGTGCCTCTCTCTTGCTTACAAATGTCTAGGTCCCCACTGCCTGCTGGAAAGAAAACACACTCCTTTG
CTTAGCCACAGTTCTCCATTTCACTTGACCCCTGCCACCTCTCCAACCTAACTGGCTTACTTCCTAGTCTACT
TGAGGCTGCAATCACACTGAGGAACTCACAAATCCAAACATACAAGAGGCTCCCTCTTGACGTGGCACTTACCCA
CGTGCTGTCCACCTTCCCTCATGCTGTTTCACCTTTCTTCGGACTATTTTCCAGCCTTCTGTACGAGTGAAAC
TTATAAAATTTTTGTGATTTCAATGTAGCTGCTCCTCTTCAAATAAACATGTCTGCCCTCCAA

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FIGURE 2222

MLLMVVSMACVGFFLVQRAGPHVGGQDKPFLSAWPSAVVPRGGHVTLRCHYRHRFNNFMYKEDRIHVPIFHGRL
FQESFNMSPVTTAHAGNYTCRGSHPHSPTGWSAPSNPVVIMVTGNHRKPSLLAHPGPLVKSGERVILQCWSDIME
EHFFLHKEGISKDPSRLVGQIHDGVSKANFSIGPMMLALAGTYRCYGSVHTPYQLSAPSDPLDIVVTGPYEKPS
LSAQPGPKVQAGESVTLSCSSRSSYDMYHLSRERGAHERRLPAVRKVNRTFQADFPLGPATHGGTYRCFGSFRHS
PYEWSDPDPLLVSVTGNPSSSWPSPTEPSSKSGNPRHLHILIGTSVVIILFILLFFLLHLWCSNKKNAAVMDQ
EPAGNRTANSEDSDEQDPPEEVTYAQLDHCVFTQRKITRPSQRPKTPPTDTILYTELPNAKPRSKVVSCP

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FIGURE 2223

TTCCTCAGAAACGAGCAAACCTGAAAGCTACTCTCTCAGCTTCAGAGGGAAAAAATGTTGTAGATTTCTGGACT
TGGGAGCAGACATTTCAAGAACTAATCCAAGAGGCAAAACCCCGGGCCACATGGACGCTGAAGTTGGATGGCAAC
CTTCAGCTAGACTGCCTGGCTCAAGGGTGAAGCAATACCAACAGAGAGCATTGGCTGGTTCCGGTGTTCCTCC
TGCCAGCGAAGTTGGGCTTCCGCCAAGTTGCAGATTCTGTGCCACACGTACTGGGAGCACTGGACATCCCAGGGT
CAGGTGCGTATGAGGCTCTTTGGCCAAAGGTGCCAGAAGTGCTCCTGGTCCCAATATGAGATGCCTGAGTTCTCC
TCGGATAGCACCATGAGGATTCTGAGCAACCTGGTGCAGCATATACTGAAGAAATACTATGGAAATGGCATGAGG
AAGTCTCCAGAAATGCCAGTAATCCTGGAAGTGTCCCTGGAAGGATCCCATGACACAGCCAATTGTGAGGCATGC
ACTTTGGGCATATGTGGACAGGGCTTAAAAAGCTACATGACAAAGCCGTCCAAATCCCTACTCCCCCACCTAAAG
ACTGGGAATTCCTCACCTGGAATTGGTGCTGTGTACCTCGCAAACCAAGCCAAGAACCAGTCAGATGAGGCAAAA
GAGGCTAAGGGGAGTGGGTATGAGAAATTAGGGCCAGTCGAGACCCAGATCCACTGAACATCTGTGCTTTATT
TTGCTGCTTGTATTTATTGTAGTCAAATGCTTTACATCAGAAATGATGAAAATAGGCTTGCCACTTTCTCTTATTT
TAATTCCATGGTAGTCAATGAACTGGCTGCCACTTTAATATAACTGAAAATTCATTTTGAGACCAAGCAGGATCA
AGTTTGTAGAATAAACACTGGTTTCCTAGCTATCCTCTGAAAACAGTATGAAACATGACCAAGTACATAATGGAT
TTAGTAATAAATATTGTGCAATTGCTAAAAA

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FIGURE 2224

MVVDFTWEQTFQELIQEAKPRATWTLKLDGNLQLDCLAQGKQYQQRAFGWFRCSQRSWASAKLQILCHTYW
EHWTSQGQVRMRLFGQRCQKCSWSQYEMPEFSSDSTMRLSNLVQHILKKYYGNGMRKSPEMPVILEVSLEGSHD
TANCEACTLGICGQGLKSYMTKPSKSLLPHLKTGNSSPGIGAVYLANQAKNQSDEAKEAKGSGYEKLGPSRDPDP
LNICVFILLVFIVVKCFTSE

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FIGURE 2225

TAATAGTCACATGACACGTTTCCCGTCAAGATGGCGGATACTCTCCCTTCGGAGTTTGATGTGATCGTAATAGGG
ACGGGTTTGCCTGAATCCATCATTGCAGCTGCATGTTCAAGAAGTGGCCGGAGAGTTCTGCATGTTGATTCAAGA
AGCTACTATGGAGGAAACTGGGCCAGTTTTAGCTTTTCAGGACTATTGTCCTGGCTAAAGGAATACCAGGAAAAC
AGTGACATTGTAAGTGACAGTCCAGTGTGGCAAGACCAGATCCTTGAAAATGAAGAAGCCATTGCTCTTAGCAGG
AAGGACAAAATATTCAACATGTGGAAGTATTTTGTATGCCAGTCAGGATTTCATGAAGATGTCGAAGAAGCT
GGTGCACTGCAGAAAAATCATGCTCTTGTGACATCTGCAAACTCCACAGAAGCTGCAGATTCTGCCTTCCTGCCT
ACGGAGGATGAGTCATTAAGCACTATGAGCTGTGAAATGCTCACAGAACAACTCCAAGCAGCGATCCAGAGAAT
GCGCTAGAAGTAAATGGTGCTGAAGTGACAGGGGAAAAAGAAAACCATTGTGATGATAAACTTGTGTGCCATCA
ACTTCAGCAGAGACATGAGTGAAATGTGCCTATAGCAGAAGATACCACAGAGCAACCAAGAAAACAGAATT
ACTTACTCACAAATTATTAAAGAAGGCAGGAGATTTAATATTGATTTAGTATCAAAGCTGCTGTATTCTCGAGGA
TTACTAATTGATCTTCTAATCAAATCTAATGTTAGTCGATATGCAGAGTTTAAAAATATTACCAGGATTCTTGCA
TTTCGAGAAGGACGAGTGAACAGGTTCCGTGTTCCAGAGCAGATGTCCTTAAATAGCAAACAACTTACTATGGTA
GAAAAGCGAATGCTAATGAAATTTCTTACATTTTGTATGGAATATGAGAAATATCCTGATGAATATAAAGGATAT
GAAGAGATCACATTTTATGAATATTTAAAGACTCAAAAATTAACCCCCAACCTCCAATATATTGTCATGCATTCA
ATTGCAATGACATCAGAGACAGCCAGCAGCACCATAGATGGTCTCAAAGCTACCAAAAACCTTCTTCACTGTCTT
GGGCGGTATGGCAACACTCCATTTTTGTTTCTTTATATGGCCAAGGAGAACTCCCCCAGTGTTCCTGCAGGATG
TGTGCTGTGTTTGGTGGAATTTATTGCTTTCGCCATTCACTACAGTGCCTTGTAGTGGACAAAGAATCCAGAAAA
TGTAAGCAATTATAGATCAGTTTGGTCAGAGAATAATCTCTGAGCATTTCCTCGTGGAGGACAGTTACTTTCTT
GAGAACATGTGCTCACGTGTGCAATACAGGCAGATCTCCAGGGCAGTGTGATTACAGATAGATCTGTCTTAAA
ACAGATTAGATCAACAGATTTCCATTTTGACAGTGCCAGCAGAGGAACCAGGAACCTTTTGTGTTCCGGTCAAT
GAGTTATGTTCTTCAACGATGACATGCATGAAAGGCACCTATTTGGTTTCATTGACTTGCACATCTTCTAAAACA
GCAAGAGAAGATTTAGAATCAGTTGTGCAGAAATGTTTGTTCATATACTGAAATGGAGATAGAAAATGAACAA
GTAGAAAAGCCAAGAATTCTGTGGGCTCTTTACTTCAATATGAGAGATTCGTCAGACATCAGCAGGAGCTGTTAT
AATGATTTACCATCCAACGTTTATGTCTGCTCTGGCCCAGATTGTGGTTTAGGAAATGATAATGCAGTCAAACAG
GCTGAAACACTTTTCCAGGAAATCTGCCCCAATGAAGATTTCTGTCCCCCTCCACCAAATCCTGAAGACATTATC
CTTGATGGAGACAGTTTACAGCCAGAGGCTTCAGAAATCCAGTGCCATACCAGAGGCTAACTCGGAGACTTTCAAG
GAAAGCACAAACCTTGGAAACCTAGAGGAGTCTCTGAATTAATGGATATACACCAAACCTGGATACCCAACCTTGG
AAATTCTGACTGGTCTCAGAGTCTACTTGATAGAAGGACTGTTTGAGAAATGTTAGAAAGCAGCAGCAATTATAA
GGCAAAATAGGTAAT

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FIGURE 2226

MADTLPSEFDVIVIGTGLPESIIAAACSRSGRRVLHVDSRSYGGNWAFFSFGLLSWLKEYQENS DIVSDSPVW
QDQILENEEAIALSRKDKTIQHVEVFCYASQDLHEDVEEAGALQKNHALVTSANSTEADSAFLPTEDESLSTMS
CEMLTEQTPSSDPENALEVNGAEVTGEKENHCDDKTCVPSTSAEDMSENVPIAEDTTEQPKNRITYSQIIEGR
RFNIDLVS KLLYSRGLLIDLLIKSNVSRYAEFKNITRILAFREGRVEQVPCSRADVFSKQLTMVEKRMLMKFLT
FCMEYEKYPDEYKGYEEITFYEYLKTQKLTPNLQYIVMHSIAMTSETASSTIDGLKATKNFLHCLGRYGNTPF LF
PLYGQGELPQCFCRMCAVFGGIYCLRHVSQCLVVDKESRKCKAIIQFGQRIISEHFLVEDSYFPENMCSR VQYR
QISRAVLITDRSVLKTDSQQISILTVPAEEP GTFAVRVIELCSSTMTCMKGTYLVHLTCTSSKTAREDL ESVVQ
KLFVPYTEMEIENEQVEKPRILWALYFNMRDSSDISRSCYNDLP SNVYVCSGPD CGLGNDNAVKQAETL FQEICP
NEDFCPPPPNPEDIILDGDSIQPEASESSAIP EANSETFKESTNLGNLEESSE

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FIGURE 2227

GGGTGCGCTCGGCCGTGGCGCACCTGGTGAGCTCCGGGGGCGCTCCGCCTCCGCGCCCCAAATCCCCGGACCTGC
CCAACGCCGCTCGGGCGCCGCCGCCGCTCCAGAAGCGCCAGGAGCCCTCCCGGAAGGCTGGGAGCGGGA
GCGCGACGCCCGCGAAGGCTGTTGAGGCTCGAGCGAGCTTCTCCAGACCGACCTTCTGCAGCTGAGCCCCGGG
GGCTGCGACGCCCGGATGACCACGCGGGCCGGGCTGTGCAAAGCCCCCGGACACGGGCCGCCCTGCCCTGGA
GCACAGGCTACGCCGAGTGAGCGCCCCCTGGGGCACCCAAACCAGGATGGGGCTCCACCCCTCTCCCCAGCTCC
GCATCCCCGGCGCTAGGACGCGTTCCCCACGCGCGCTCCGGGCCAGGAGCTCCCTTTTCCGTGGACCTTTGCTAT
CCTCTGGTCTTCGGGGCCGCACCCCTCCCAACCATTTTCCAGTGGGGGGCAGCCTGTGTACCTTCTTACGTC
CTTCCCGCTCATTGACTGCCCTCGCCACGCGCGCTCAGGACCCTGTTCTGCCCCAGAGCCCGAGGGCGGAGAG
CCCGGCGAAGGATGAGTTGGCCAGTTCCCCGTGCGCGGCCCGGCAGCTTAAAGGCTAAGGAAAAGGGTTTCACG
AAGGAGCGGGTTCTTTTTTAAGGGGACATAGCGGTTGGGAAGACTCGCTCACC CGCTTCCCGGCTCCAGCGCC
CCAGTTCCCTGTCCCTCTTACCGTAGTTCCCTTCCCTCCACACCCAGAAATAGCCCGGACACCAGGAGGCCG
CCAGCTTCCAGGAGCGGGGAGGGGACGCCCCGGGTAGAGGAGGGTCCATTTAGATGCCCTTACAGCTGCCA
ACTCGTGCTGGCTGGCAAAGAAGCGGACCCCTGCCCGGAGCGGCCGGCTGGCCCCGGGGCTGTGTGTAATTTA
AATGCATCTGCCGGAACGCAGAGCACCGAGGGAGATGGGGGCGCTCAGTTGCTGAGGAAGGTGGCTGGTGGCC
CATGGACCCACCACCTCCCTTAGCCTCCTGTGTGGGAGGAGTTTATGGGTATGTGGCTCCTGCCAGTCCAG
GTGGGCTTTTCACTTCTACTCTATTTCAGTTCTCTTTCCCGATCTGGGCTGGAGAGCTTCTCATTGTTAAGGCA
GCAGAACTTTTCGCTGGATGGTTTATAGGATAAGGGGTCATCAATGCTGGCAAGAGTCGGCACAATGAGGACCAGG
CTTGCTGTGAAGTGGTGTATGTGAAGGTGCGGAGGAGTGTACAGGAGTACCTAGGGAGCCTAGCCGAGGCCAGG
GACTCTGCTTCTACTACTGGGGCTATTTGATGGGCATGCAGGGGGCGGAGCTGCTGAAATGCGCTCACGGCTCC
TGCATCGCCATATCCGAGAGCAGCTAAAGGACCTGAAGGAAGTGAGCCACGAGAGCCTGGTAGTGGGGGCCATTG
AGAATGCCCTTCCAGCTCATGGATGAGCAGATGGCCCCGGGAGCGGCGTGGCCACCAAGTGGAGGGGGGCTGCTGTG
CACTGGTTGTGATCTACCTGCTAGGCAAGGTGTACGTGGCCAATGCAGGCGATAGCAGGGCCATCATTGTCCGGA
ATGGTGAAATCATTCCAATGTCCCGGAGTTTACCCCGGAGACTGAGCGCCAGCGTCTTACAGCTGCTTGGCTTCC
TGAAACCAGAGCTGCTAGGCAGTGAATTCACCCACCTTGAGTTCCCCCGCAGAGTTCTGCCCAAGGAGCTGGGGC
AGAGGATGTTGTACCGGGACCAGAACATGACCGGCTGGGGCTACAAAAAGATCGAGCTGGAGGATCTCAGGTTTC
CTCTGGTCTGTGGGGAGGGCAAAAAGGCTCGGGTGATGGCCACCATTGGGGTGACCCGAGGCTTGGGAGACCACA
GCCTTAAGGTCTGCAGTTCCACCCTGCCCATCAAGCCCTTCTCTCCTGCTTCCCTGAGGTACGAGTGTATGACC
TGACACAATATGAGCACTGCCCAGATGATGTGCTAGTCTGGGAACAGATGGCCTGTGGGATGTCACTACTGACT
GTGAGGTAGCTGCCACTGTGGACAGGGTGCTGTGCGCCTATGAGCCTAATGACCACAGCAGGTATACAGCTCTGG
CCCAAGCTCTGGTCTGGGGGCCCGGGTACCCCCGAGACCGTGGCTGGCGTCTCCCCAACACAAGCTGGGTT
CCGGGGATGACATCTCTGTCTTCTGTATCCCCCTGGGAGGGCCAGGCAGTTACTCCTGAGGGGCTGAACACCATC
CCTCCCACTAGCCTCTCCATACTTACTCTCTACAGCCCCAAATTCTGAAGTTGTCTCCCTGACCCTTCTTTAGT
GGCAACTTAAGTGAAGAAGGGATGTCCGCTATATCCAAATTACAGCTATTGGCAAATAAACGAGATGGATAAAA
AA

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FIGURE 2228

MASRLLRHIREQLKDLKEVSHESLVVGAIENAFQLMDEQMARERRGHQVEGGCCALVVIYLLGKVYVANAGDSR
AIIVRNGEIIIPMSREFTPETERQRLQLLGFLKPELLGSEFTHLEFPRRVLPKELGQRMLYRDQNMTIGWAYKKIEL
EDLRFPLVCGEKKARVMATIGVTRGLGDHSLKVCSSILPIKPFLSCFPEVRVYDLTQYEHCPDDVLVLGTDGLW
DVTTDCEVAATVDRVLSAYEPNDHSRYTALAQAIVLGARGTPRDRGWRLPNNKLGSGDDISVFVIPLGGPGSYS

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FIGURE 2229

GCACAGACAGCACCATGTCGCTCATGGTCGTCAGCATGGCGTGTGTTGGGTTCTTCTTGCTGCAGGGGGCCTGGC
CACATGAGGGAGTCCACAGAAAACCTTCCCTCCTGGCCACCCAGGTCGCCTGGTGAAATCAGAAGAGACAGTCA
TCCTGCAATGTTGGTCAGATGTCAGGTTTGAGCACTTCCTTCTGCACAGAGAAGGGAAGTTTAAGGACACTTTGC
ACCTCATTGGAGAGCACCATGATGGGGTCTCCAAAGCCAACCTTCTCCATCGGTCCCATGATGCAAGACCTTGCAG
GGACCTACAGATGCTACGGTTCGTACTCACTCCCCCTATCAGTTGTCAGCTCCCAGTGACCCTCTGGACATCG
TCATCACAGGTTCTATATGAGAAACCTTCTCTCTCAGCCCAGCCGGGCCCCACGGTTCTGGCAGGAGAGAGCGTGA
CCTTGTCTGCAGCTCCCGGAGCTCCTATGACATGTACCATCTATCCAGGGAGGGGGAGGCCCATGAATGTAGGT
TCTCTGCAGGGCCCAAGGTCAACGGAACATTCCAGGCCGACTTTCTCTGGGCCCTGCCACCCACGGAGGAACCT
ACAGATGCTTCGGCTCTTTCCGTGACTCTCCATACGAGTGGTCAAACCTCGAGTGACCCACTGCTTGTCTGTCA
TAGGAAACCTTCAAATAGTTGGCCTTCACCCACTGAACCAAGCTCTAAAACCGGTAACCCCCGACACCTGCACA
TTCTGATTGGGACCTCAGTGGTCATCATCTCTTCATCTCTCTTCTTCTCTCTTCATCGTGGTGCTCCAACA
AAAAAATGCTGCGTAATGGACCAAGAGTCTGCAGGGAACAGAACAGCGAATAGCGAGGACTCTGATGAACAAG
ACCCTCAGGAGGTGACATACACAGTTGAATCACTGCGTTTTTACACAGAGAAAAATCACTCGCCCTTCTCAGA
GGCCCAAGACACCCCAACAGATATCATCGTGACGCGGAACCTTCAAATGCTGAGTCCAGATCCAAAGTTGTCT
CCTGCCCATTGAGCACCACAGTCAGGCCTTGAGGGCGTCTTCTAGGGAGACAACAGCCCTGTCTCAAAACCGGGTT
GCCAGCTCCCATGTACCAGCAGCTGGAATCTGAAGGCATGAGTCTGCATCTTAGGGCATCGCTCTTCTCTCACACC
ACAAATCTGAATGTGCTCTCACTTGCTTACAAATGTCTAAGGTCCCCACTGCCTGCTGGAGAAAAAACACACTC
CTTTGCTTAGCCACAGTTCTCCATTTCACTTGACCCCTGCCACCTCTCCAACCTAACTGGCTTACTTCTTAGT
CTACTTGAGGCTGCAATCACACTGAGGAACTCACAATTCCAAACATACAAGAGGCTCCCTCTTAACGCAGCACTT
AGACACGTGTTGTTCCACCTTCCCTCATGCTGTTCCACCTCCCCTCAGACTAGCTTTCAGTCTTCTGTGAGCAGT
AAAACCTTATATATTTTTTAAATAAATTCAATGTAGTTTTCCATCCTTCAAATAAACATGTCTGCCCCCATG

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FIGURE 2230

MSLMVVSMACVGFFLLQGAWPHEGVHRKPSLLAHPGRLVKSEETVILQCWSDVRFEHFLHREGKFKDTLHLIGE
HHDGVSKANFSIGPMMQDLAGTYRCYGSVTHSPYQLSAPSDPLDIVITGLYEKPSLSAQPGPTVLAGESVTILSCS
SRSSYDMYHLSREGEAHECRFSAGPKVNGTFQADFLGPATHGGTYRCFGSFRDSPYEWSNSSDPLLVSIGNPS
NSWPSPTESPSSKTGNPRHLHLIGTSVVIILFILLFLLHRWCSNKKNAAVMDQESAGNRTANSEDSDEQDPQEV
TYTQLNHCVFTQRKITRPSQRPKTPPTDIIVYAELEPNAESRSKVVSCP

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FIGURE 2231

TAAAACTTTAGGAAATTAGTACCAGACTTTTATATTGGTCAACAGCAAAATGAACATTACTACTCAGCCTCCAAC
ACATGCAGTTTGCCTATACCAGGGATCCTGTCAAAATATACACCACTTATAGCTTCTTAAGTGCAGTTATCATAG
AGCACAGTCCCTGACATCACACAGCTGCAGAGATGAATAAACAAAGAGGAACCTACTCAGAAGTGAGTCTGGCCC
AGGACCCAAAGAGGCAGCAAGGAACTTAAGGGCAATAAAATCTCCATTCAGGAACCAACAGGAAATATTCC
AAGTAGAATTAAACCTTCAAATGCTTCTTCGGATCATCAAGGGAATGACAAGACATATCACTGCAAAGGTTTAC
TGCCACCTCCAGAGAAGCTCACTGCTGAGGTCCTAGGAATCATTTCGATTGTCCTGATGGCCACTGTGTTAAAAA
CAATAGTTCTTATTCCTTGTATTGGAGTACTGGAGCAGAACAAATTTTCCCTGAATAGAAGAATGCAGAAAGCAC
GTCATTGTGGCCATTGTCCTGAGGAGTGGATTACATATTCACAGTTGTTATTACATTGGTAAGGAAAGAAGAA
CTTGGGAAGAAAGAGTTTGCTGGCCTGTGCTTCGAAGAACTCTGATCTGCTTTCTATAGATAATGAGGAAGAAAT
GGTAAGACGTAAATGTTTCAACACTTTACTAAAAGCTTATTTCTGTCAATATCATATTTGTAGAAATCATCCATA
TGTTTATACATATATTTACTTCATATATTTTAAAGTCTGTGTAGTATTCAACTGACTTCATAATATTTTATATT
CATATACTGTTAATGCACATTTGGTTATTTCCAGTTTTGCTTTTCATGGAAACCCATGCTTCTATAAATGTTTTT
ATCACAAAATAAATATAAAGAAAACATAAAAAAACCAAAAAAAAAAAAAAAAAAGCGGCCCGCATATAG

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FIGURE 2232

MNKQRGTYSVSLAQDPKRQQRKLKGNKISISGTKQEIFQVELNLQNASSDHQGNDKTYHCKGLLPPEKLTAEV
LGIICIVLMATVLKTIVLIPCIGVLEQNNFSLNRRMQKARHCGHCPEEWITYSNSCYIIGKERRTWEERVCPVL
RRTLICFL

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FIGURE 2233

GGCGGCGGCAGCGGGTTTCGGTTGCGCGTGGCGCACGGGGTGGGAGCGGAGCCCAGGCCGGGAGCAGGCGCCGCCG
CCAGCGACCATGGGGAACGTGTTGGCTGCCAGCTCGCCGCCCGCAGGGCCGCCACCGCCGCCTGCGCCGGCCCTC
GTGGGGCTGCCGCCACCTCCGCCCTCGCCGCCGGGCTTCACGCTGCCGCCGCTGGGAGGCAGCCTGGGCGCCGGC
ACAGTACGAGTCGAAGTTCGGAACGGACCCCCGGGGCTGCAACCGCCAGCGCCTCAGGGGCCGCCGAGGATGGG
GCTTGGCGCTGCCCTGCCCAACCGGGGCACATTGAGGAGTGCCACCGGAAGTGCAAGGAGCTGTTTCCCATTCAG
ATGGAGGGTGTCAAGCTCAGTCAACAAAGGGTTGAGTAACATTTTCAGGTCAACCACACAGTAGCCCTCAGC
ACAATCGGGGAGTCCAACCTACCATTTCGGGGTTCACATATGTGGGGACAAAGCAGCTGAGTCCCACAGAGGCGTTC
CCTGTACTGGTGGGTGACATGGACAACAGTGGCAGTCTCAACGCTCAGGTCATTACCAGCTGGGCCCCGGTCTC
AGGTCCAAGATGGCCATCCAGACCCAGCAGTCAAGTTTGTGAACTGGCAGGTGGACGGGGAGTATCGGGGCTCT
GACTTCACAGCAGCCGTCACCCTGGGGAACCCAGACGTCCTCGTGGGTTAGGAATCCTCGTAGCCCACTACCTC
CAGAGCATCACGCTTGCCCTGGCCCTGGGTGGAGAGCTGGTCTACCACCGCGGCCCTGGAGAGGAGGGCACTGTC
ATGTCTCTAGCTGGGAAATACACATTGAACAACCTGGTTGGCAACGGTAACGTTGGGCCAGGCGGGCATGCACGCA
ACATACTACCACAAAGCCAGTGACCAGCTGCAGGTGGGTGTGGAGTTTGAGGCCAGCACAAAGGATGCAGGACACC
AGCGTCTCCTTCGGGTACCAGCTGGACCTGCCCAAGGCCAACCTCCTCTTCAAAGGCTCTGTGGATAGCAACTGG
ATCGTGGGTGCCACGCTGGAGAAGAAGCTCCCACCCCTGCCCTGACACTGGCCCTTGGGGCCTTCTCTGAATCAC
CGCAAGAACAAGTTTCAGTGTGGCTTTGGCCTCACCATCGGCTAGAGCCCTCCTGGCCCCCGCCTTCCACGCCCTT
CCGATTCCACCTCCACCTCCACCTCCCCCTGCCACAGAGGGGAGACCTGAGCCCCCTCCCTTCCCTCCCCCTT
GGGGTTCGGGGGGGGACATTGGAAGGAGGGACCCCGCCACCCAGCAGCTGAGGAGGGGATTCTGGAATGAAT
GGCGCTTCGGGATTCTGAGTAGCAGGGGCAGCATGCCAGTGGGCCTGGGGTCCCGGAGGGATTCCGGAATTGA
GGGGCAGCAGGATTCTGAGCACCAGGGGCAGAGCGGCCAGACAACCTCAGGGAGGAGTGTCTGGCGTCCCCA
TCCTCCAAAGGGCCTGGCCCCGCCCGAGGGGCAGCGAGAGGAGCTTCCCCATCCCCGGTCAGTCCACCCTGCC
CCGTCCACTTTCCCATCTCCTCGGTATAAATCATGTTTATAAGTTATGGAAGAACCGGGACATTTTACAGAAAAA
AAACAAAAACAACAAAAAATATACGTGGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2234

MGNVLAASSPPAGPPPPAPALVGLPPPPSPPGFTLPPLGGSLGAGTSTSRSSERTPGAATASASGAAEDGACG
CLPNPGTFEECHRKCKELFPIQMEGVKLTVNKGLSNHFQVNHTVALSTIGESNYHFGVTYVGTKQLSPTEAFPVL
VGDMDNSGSLNAQVIHQLGPLRSKMAIQTQOSKFVNWQVDGEYRGSDFTAATLGNPDVLVGSGILVAHYLQSI
TPCLALGGELVYHRRPGEEGTVMISLAGKYTLNNWLATVTLGQAGMHATYYHKASDQLQVGVEFEASTRMQDTSVS
FGYQLDLPKANLLFKGSVDSNWIVGATLEKKLPPLPLTLALGAFLNHRKNKFQCGFGLTIG

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FIGURE 2235

ACCTCCTGTACCTCTTAGCTTGTTTAAATTTTTTTTACAGCATTTATCAGTTTCCAGTTGTACCCCTACAATAATG
TACGTTCCAAGTGCCTGAAATAGTGCCTAGCACATAATGTGTGAAACACACACACACACACACATACCCATAA
CCCACTGAATGAATGAAGAGAAACCGAAAAAATAAAAGTATAATATCCCATCCCTGATCACTCTCCAGAAATGTA
TACTTCCAAGGAACCTTGATATTTCTATAGGTAGAATAATTGATGATGATAATAACAGTAATAGCTATATTTGAA
TGTCCATTATTTACACTAATATTCACAGCAACTCTGCAAAGTAGTTATTATGAAGAGACTGAGGTGCAGAGAAGA
AAGTTCACATAACTGCTAGGTGCTGAAGCTGAGATTTGTAACATATTGGATATCTGAATCCAGGGGTCTATGCTCTT
CCCATTAACCTGATTGTTATATTTTACAAATGTAACAAATATCAAAAGAAAATCTTGGCATTTCATTTTAA
GAGGAATTAGGAAGGAAAACAAATAGGTATATAAAGGTACAGCTAAGTTGTGAGCAATTCTTTTCCTTAATCTGT
AAGAATCTTGCTCATCGATCAGGGTGCTGTTAATCACACTAGGTCCCAATCTCTTAATAAGGGAGTTGGGAGGGG
TGTTTCATCCTAGGACAGGAGTCTCAGACTCGGTTAGAGTAATGAAAAGGATTATAATACTAATTTCTGAAGAG
AATGTGGGACTGAAGCTAAAAATACTCACTATAAAGTAACCTCTTTTGGCTATAGTCTATTATATCACAAAAATAT
TATAAAAATCCTCAGGTTCTTTCTATCTTCCACACCTAATTTTCAAAACCGATCAATTTTTTTAAGCCACTTAA
CCTGTGTGTAATTACTACTGTGGTCTCCTAGCACAGACAACAGCTGCTGACTGCTGTGGTATTGGCAGGATCAT
GTAGTCTATAGAGAATTTGATAAAAAGACTCCAAACAATTTATGCCCTGTGCTGTTACAGAGGAGAACAAAATG
CTTTCAGCAAGGATTTGAAAACCTTCCGTCCTGCAGGAAAGGATTGATGCTGATAGAAGAGCCTGGACAGATG
TAATGAGAATAAAGAAAACAGATGGCTGGAGATGACATTTATCCAGGGTCACTTTGTGAGGCCCTAGGACTTAA
ATCGAAGTTGAACTTTTTTTTTTTTAACCAAATAGATAGGGGAAGGGAGGGAGAGGGAGGACAGGGAGAGAAA
ATACCATGCATAAATTGTTTACTGAATTTTTATATCTGAGTGTTCAAAATATTTCCAAGCCTGAGTATTGTCTAT
TGGTATAGATTTTGTAAATCAATAATTGATTATTTATTTGCACTTATTACAATGCCTGAAAAAGTGCACCACAT
GGATGTTAAGTAGAAATTCAAGAAAGTAAGATGTCTTCAGCAACTCAGTAAAACCTTACGCCACCTTTTGGTTTG
TAAAAGGTTTTTTTATACATTTCAAACAGGTTGCACAAAAGTTAAAATAATGGGGTCTTTTATAAATCCAAAGTAC
TGTGAAAACATTTTACATATTTTTTAAATCTTCTGACTAATGCTAAAACGTAATCTAATTAAATTTTATACAGTT
ACTGCAGTAAGCATTAGGAAGTGAATATGATATACAAAATAGTTTATAAAGACTCTATAGTTCTATAATTTATT
TTACTGGCAAATGTCATGCAACAATAATAAATTATTGTAACTTTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 2236

MGYYTFIFSVSLHSFSGLWVCVCVCFTHYVLGTISGTWNVHYCRGTTGN

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FIGURE 2237

GGGGAGAGCGGGTGTGTTGAAGGCTCCGCGGACCGGCACTAGGAGCCGGGGCGGGTCCGTGACCCCTCCGGCTGCT
CGGAGTGAAACAGCGGCCAGGAAAGAAGCGGGCCTGAACACCATGATCCCTTTGGAGAAGCCAGGCAGCGGGCGG
TCCTCCCCAGGCGCCACCTCAGGCTCGGGCCGGGCAGGCCGGGGTCTGAGCGGGCCGTGCCGGCCGCCGCCGCG
CCCCAGGCCCGGGGCTGCTGACAGAGATACGCGCCGTGGTGCGCACCGAGCCCTTCCAGGACGGCTACAGCCTG
TGCCCGGGCCGGGAGCTGGGCAGGGGGAATTTGCAGTGGTGAGAAAATGTATAAAGAAAGATTCTGGGAAAGAA
TTTGCTGCAAAGTTTCATGAGAAAAAGAAGAAAAGGCCAAGATTGTCGGATGGAAATAATTCATGAGATTGCTGTA
CTTGAAGTAGCACAAGACAATCCTTGGGTCAATTAATTTACATGAAGTTTATGAGACTGCATCAGAAATGATCTTA
GTTCTGGAATATGCTGCTGGGGGTGAAATCTTTGACCAGTGTGTTGCAGACAGAGAAGAAGCCTTTAAAGAAAA
GATGTTCAAAGACTTATGCGACAGATTTTGAAGGTGTTCACTTTTACACACTCGTGATGTAGTTTCATCTTGAT
TTGAAGCCTCAGAAATATTCTGTTGACAAGTGAATCTCCATTGGGTGACATTAAGATTGTTGATTTTGGCCTTTCA
AGAATATTGAAGACAGTGAAGAGCTCCGAGAAATTAAGGTACCCCTGAATATGTGGCTCCTGAAATTTCTAGT
TATGATCCTATAAGCATGGCAACAGATATGTGGAGCATTGGAGTGTAAACATATGTCATGCTTACAGGAATATCA
CCTTTCTTAGGCAATGATAAACAAGAAACATTCTTAAACATCTCACAGATGAATTTAAGTTATTCTGAGGAAGAA
TTTGATGTTTTGTCTGAGTCGGCTGTTGATTTTCATCAGGACACTTTTAGTTAAGAAACCTGAAGATCGAGCCACT
GCTGAAGAATGTCTAAAGCACCCCTGGTTGACACAGAGCAGTATTCAAGAGCCTTCTTTCAGGATGGAAAAGGCA
CTAGAAGAAGCAAATGCCCTCCAAGAAGGTCACTCTGTGCCTGAAATTAATTCGGATACCGACAAATCAGAAACC
GAGGAATCCATTGTAACCGAAGAGTTAATTGTAGTTACTTCATATACTCTAGGACAATGCAGACAGTCTGAAAA
GAGAAAATGGAGCAAAAGGCCATTTCCAAACGATTTAAATTTGAGGAACCTTTGCTACAAGAAATTCAGGAGAA
TTTATCTACTAGCAATATTTCCCTTTAGAACCTCAAGATTTCTACACTGAAAATGTAAATATTATTTATGGACC
TCTGGCCAAATGGTACATGTACTGGAAGTGATAACCAAGTATCACTTACACAAACAAAAATAACTTTGTCAAATT
TGTGGAGTTAGGTGGAAGCCAGATTTTAAAGTTGCCAACCAAGATATTTAACAGGTACAGTTACCCGTTTCAAT
GTTATTTTAAAGAAGGGAGATGTTGGCACCTTTGAATTCTACATCCTGTTTCTCCAGAATGAGAATTTGTGTACA
AAGATATTTGTATTCACTTTCTTTAAAAATCCAAGTAAAGTGCCAAAACCTACATTTCTGTAAATCTCTTGCA
TATTCATATGTGTATCTATATCTGCATAATGTTTGTAAATGTCTACTAAAATGCTACTTTTTCATTTGGATT
GTTTTTGGCAAAATTTTAGTCTAAACAGACATCTAAATTTTCGAGACTTAGAATAACATTCATAAGTTTGATA
ATGCTTTTTTAAATATTTTCTTACTGCTTTATAGTGACTTGATTGGTTTCTGTTGTGTTTTGCCTAAATACT
AGTAACATATCAGTGAAAAACCTAATTTTTTTCTCTCAATGTCACTAGTAAGAGAGGTGGTAATTTTTTACC
TCTGAAATTATTCTGGGTTTAGGTGTCAGCTTTTGAGCTGCTCCCTCATCACACCACACTCATGCACTGTT
CTCTCTCACACTCTATACCCCTGCCACTTCCTGGCACCTCCCCCATGCTTGTCAATTAATTTGGCCACTTGTA
GGTATCAGTGTGATCTGATCAACACTCTGGTTACCTTGGTCAGTGAAAAGATGCTACTATATTGCTTTTGTCCCA
AAGTGAGTAAATCCCCTAGAGCAGAGAGAGAGAGAGAGAGAGAGTGTCTTCATGCCAACCACAGCCTGTTTCTG
CTGAGTTTCTTATCAGCCCTCAAGCTATGCTAGGAAAAGTTATAAAATGCCAAATATTTATAACATTTACTTT
GTCCATAAAAAATTTACATTGGATACTCTGTAAGTAGGAGTACTTTGTCCCAAAAGATGTATAAGAATGTACT
AATAGTTTTATTTGATTAGGATTGAACAGTTCAGTTGTATCTATGCCCCACAGTGACCAGTAAAGTCCAATTA
ATATGGAAATGTAAAGTGTATGCCGAATACCTTAAAGTAACTAATTATCCTTACACACAAAAGGCTCAGTGCAT
TAAATATTTGCCTATC

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FIGURE 2238

MIPLEKPGSGGSSPGATSGSGRAGRGLSGPCRPPPPQARGLLTEIRAVVRTEPFQDGYSILCPGRELGRGKFAVV
RCKIKKDSGKEFAAKFMRKRRKGQDCRMEIIHEIAVLELAQDNPWVINLHEVYETASEMILVLEYAAGGEIFDQC
VADREEAFKEKDVQRLMRQILEGVHFLHTRDVVHLDLKPQNILLTSESPLGDIKIVDFGLSRILKNSEELREIMG
TPEYVAPEILSYDPISMATDMWSIGVLTYYMLTGISPFGLNDKQETFLNISQMNLSYSEEEFDVLSESAVDFIRT
LLVKKPEDRATAEECLKHPWLTQSSIQEPSPFRMEKALEEANALQEGHSVPEINSDTDKSETEESIVTEELIVVTS
YTLGQCRQSEKEKMEQKAISKRFKEEPLLQEIPGEFIY

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FIGURE 2239

CTTTCGCGCGGCGGAAGAGCGCGGCCAGCTTCGGCACACTTGGGAGCCGGATCCCAGCCCTACGCCTCGTCCC
CTACAAGCTCCTCCAAGCCCCGCCGGCTGCTGTGGGAGCGGCGGCCGTCTCTCCTGGAGGTCTGTCTCTGGCAT
CCTCGGGGCCGAGGAAGGAAGAGGAGGCGCGGCCGGAGCCCTGGTGGGCGGCCTGAGGTGAGAGCCCGACCGG
CCCTTTGGGAATATGGCGACCGGTGGCTACCGGACCAGCAGCGGCCCTCGGCGGCAGCACCACAGACTTCCTGGA
GGAGTGGAAGGCGAAACGCGAGAAGATGCGCGCCAAGCAGAACCCCCGGGCCCGGCCCGGGAGGGGGCAG
CAGCGACGCGCTGGGAAGCCCCCGCGGGGGCTCTGGGCACCCCGCGGCGCGCTGCCAACGAGCTCAACAA
CAACCTCCCGGGCGCGCGCGGCCGACCTGCCGTCCCCGGTCCCGGGGGCGTGAAGTGCAGGGTCCGGCTCCGC
CATGCTGACGCGGGCGCCCCCGCGGCCCGCGGGTTCGGAGGACGAGCCCCAGCCGCTCTGCCTCGGC
TGCACCGCGCCCCAGCGTGACGAGGAGGAGCCGACGGCGTCCCAGAGAAGGGCAAGAGCTCGGGCCCCAGTGC
CAGGAAAGGCAAGGGGCAGATCGAGAAGAGGAAGCTGCGGGAGAAGCGGCGCTCCACCGCGGTGGTCAACATCCC
TGCCGCAGAGTGCTTAGATGAGTACGAAGATGATGAAGCAGGGCAGAAAGAGCGGAAACGAGAAGATGCAATTAC
ACAACAGAACACTATTGAGAATGAAGCTGTAACTTACTAGATCCAGGCAGTTCTCTGCTACAGGAGCCACC
TAGAACAGTTTCAGGCAGATATAAAAGCACAACCAAGTGTCTCTGAAGAAGATGTCTCAAGTAGATATTCTGAAC
AGATAGAAGTGGGTTCCCTAGATATAACAGGGATGCAAAATGTTTCAGGTACTCTGGTTTCAAGTAGCACACTGGA
AAAGAAAATTGAAGATCTTGAAAAGGAAGTAGTAACAGAAAGACAAGAAAACCTAAGACTTGTGAGACTGATGCA
AGATAAAGAGGAAATGATTGGAAGAACTCAAAGAAGAAATTGATTTATTAAATAGAGACCTAGATGACATAGAAGA
TGAAAATGAACAGCTAAAGCAGGAAAAATAAACTCTTTTGAAAGTTGIGGGTCAGCTGACCAGGTAGAGGATTCA
AGACTCAATGTGGAATAAATAAAGCAAGTATATTTATTTCTAGCAAACAGATGTTTGTTCAAAAATACTTCTTTT
TCATTATTGGTTTTTAAAAAGCATTATCCTTTTATCTCACAAATAAGTAATATCTTTCAGTTATTAAATGATAGA
TAATGCCTTTTTGGTTTTGTGTGGTATTCAACTAATACATGGTTTTAAAGTCACAGCCGTTTGAATATATTTTATC
TTGGTAGTACATTTTCTCCCTTAGGAATATACATAGTCTTTGTTTACATGAGTTCCAATACTTTTGGGATGTTAC
CCTCACATGTCCCTATACTGATGTGTGCCACCTTTTATGTGTTGATGACTCACTCATAAGGTTTTGGTC

2464/2682
FIGURE 2240

MATGGYRTSSGLGGSTTDFLEEWKAKREKMRKQNPFGPAPPGGGSSDAAGKPPAGALGTPAAAAANELNNNLPG
GAPAAPAVPGPGGVNCAVGSAMLTRAPPARGPRRSEDEPPAASASAAPPPQRDEEEDGVPEKGKSSGPSARKGK
GQIEKRKLREKRRSTGVVNIPAAECLDEYEDDEAGQKERKREDAITQONTIQNEAVNLDPGSSYLLQEPPTVS
GRYKSTTSVSEEDVSSRYSRTDRSGFPYNRDANVSGTLVSSSTLEKKIEDLEKEVVTERQENLRLVRLMQDKEE
MIGKLKEEIDLLNRDLDDIEDENEQLKQENKTLKVVGQLTR

2465/2682
FIGURE 2241

AGGCCGCGCTCGCGCCGAGGGGCTGCGAGAGTGACCGCGGCTGCTCCAGCGCTGACGCCGAGCC**ATG**GCGGACGA
GGAGCTTGAGGCGCTGAGGAGACAGAGGCTGGCCGAGCTGCAGGCCAAACACGGGGATCCTGGTGATGCGGCCCA
ACAGGAAGCAAAGCACAGGGAAGCAGAAATGAGAAACAGTATCTTAGCCCAAGTTCTGGATCAGTCGGCCCCGGGC
CAGGTTAAGTAACTTAGCACTTGTAAGCCTGAAAAAATAAGCAGTAGAGAATTACCTTATACAGATGGCAAG
ATATGGACAACATAAGTGAGAAGGTATCAGAACAAGGTTTAATAGAAATCCTTAAAAAGTAAGCCAACAAACAGA
AAAGACAACAACAGTGAAATTCAACAGAAGAAAAGTAATGGACTCTGATGAAGATGACGATTAT**TGA**ACTACAAG
TGCTCACAGACTAGAACTTAACGGAACAAGTCTAGGACAGAAGTTAAGATCTGATTATTTACTTTGTTTATTGTC
TATATGCCTTTTAAAAAATAAACTTGTTATGCAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2242

MADEELEALRRQRLAELQAKHGDPGDAAQQEAKHREAEMRNSILAQVLDQSARARLSNLALVKPEKTKAVENYLI
QMARYGQLSEKVSEQGLIEILKKVSQQTEKTTTVKFNRKVMDSDEDDY

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FIGURE 2243

GCCCCCTCCCTCCGCCCGCCCGCCGCCCGCCCGTCTAGTCTGGCAGGCAGGCAGGCAATCGGTCCGAGTGGCTGTC
GGCTCTTCAGCTCTCCCGCTCGGCGTCTTCTTCTCTCTCCCGGTCTAGCGTCCGGCGGCTGCACCGGCGGCGGCGC
AGTCCCTGCGGGAGGGGCGACAAGAGCTGAGCGGCGGCGCCGAGCGTCTAGCTCAGCGCGGCGGAGGCGGCGGC
GGCCCGGCAGCCAACTATGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGAGATGGTCCGCGGCGAGGTGTTTCGAC
GTGGGGCCGCGCTACACCAACCTCTCGTACATCGGCGAGGGCGCCTACGGCATGGTGTGCTCTGCTTATGATAAT
GTCAACAAAGTTCGAGTAGCTATCAAGAAAATCAGCCCCCTTTGAGCACCAGACCTACTGCCAGAGAACCCTGAGG
GAGATAAAAATCTTACTGCGCTTCAGACATGAGAATCATTGGAATCAATGACATTATTCGAGCACCACCATC
GAGCAAATGAAAGATGTATATATAGTACAGGACCTCATGGAAACAGATCTTTACAAGCTCTTGAAGACACAACAC
CTCAGCAATGACCATATCTGCTATTTCTCTACCAGATCCTCAGAGGGTTAAATATATCCATTAGCTAACGTT
CTGCACCGTGACCTCAAGCCTTCCAACTGCTGCTCAACACCACCTGTGATCTCAAGATCTGTGACTTTGGCCTG
GCCCCGTGTTGAGATCCAGACCATGATCACACAGGGTTCTGACAGAAATATGTGGCCACACGTTGGTACAGGGCT
CCAGAAATATGTTGAATTCCAAGGGCTACACCAAGTCCATTGATATTTGGTCTGTAGGCTGCATTCTGGCAGAA
ATGCTTTCTAACAGGCCATCTTTCCAGGGAAGCATTATCTTGACCAGCTGAAACACATTTTGGGTATTCTTGGGA
TCCCATCACAAGAAGACCTGAATTGTATAATAAATTTAAAGCTAGGAATATTTGCTTTCTCTTCCACACAAA
AATAAGGTGCCATGGAACAGGCTGTTCCCAAATGCTGACTCCAAAGCTCTGGACTTATTGGACAAAATGTTGACA
TTCAACCCACACAAGAGGATTGAAGTAGAACAGGCTCTGGCCACCCATATCTGGAGCAGTATTACGACCCGAGT
GACGAGCCCATCGCCGAAGCACCATTCAAGTTCGACATGGAATTGGATGACTTGCCTAAGGAAAAGCTCAAAGAA
CTAATTTTGAAGAGACTGCTAGATTCCAGCCAGGATACAGATCTTAAATTTGTGAGGACAAGGGCTCAGAGGAC
TGGACGTGCTCAGACATCGGTGTTCTTCTTCCAGTCTTGACCCCTGGTCTGTCTCCAGCCCGTCTTGGCTTA
TCCACTTTGACTCCTTTGAGCCGTTTGGAGGGGCGGTTTCTGGTAGTTGTGGCTTTTATGCTTTCAAAGAATTTT
TTCAGTCCAGAGAATTCCTCCTGGCAGCCCTGTGTGTGTACCCATTGGTGACCTGCGGCAGTATGTACTTCAGT
GCACCTTACTGCTTACTGTGCTTTAGTCACTAATTGCTTTCTGGTTTGAAGATGCAGTGGTTCTCCTCCTCTCC
TGAATCCTTTTCTACATGATGCCCTGTGACCATGCAGCCGACCCAGAGAGAGATTCTTCCCCAATTGGCTCTAG
TCACTGGCATCTCACTTTATGATAGGGAAGGCTACTACCTAGGGCACTTTAAGTCAGTGACAGCCCTTATTTGC
ACTTCACCTTTTGACCATAACTGTTTCCCCAGAGCAGGAGCTTGTGGAATACCTTGGCTGATGTTGCAGCCTGC
AGCAAGTGCTTCCGTCTCCGGAATCCTTGGGGAGCACTTGCCACGTCTTTTCTCATATCATGGTAGTCACTAAC
ATATATAAGGTATGTGCTATTGGCCAGCTTTTAGAAAATGCAGTCATTTTCTAAATAAAAAGGAAGTACTGCA
CCCAGCAGTGTCACTCTGTAGTTACTGTGGTCACTTGTACCATATAGAGGTGTAACACTTGTCAAGAAGCGTTAT
GTGCAGTACTTAATGTTTGAAGACTTACAAAAAAGATTTAAAGTGGCAGCTTCACTCGACATTTGGTGAGAGA
AGTACAAAGGTTGCAGTGTGAGCTGTGGGCGGTTTCTGGGGATGTCCAGGGTGGAATCCACATGCTGGTGCA
TATACGCCCTGAGCTACTTCAAATGTGGTTTATACCTCGCAGATACAAGAATCTTTATGAATATACAATCTTT
TTCCTTCTACAGCTTAGCTCCGTCTTTTCAACCACGAACATTTAAACCCGACCTACTAGCACTGTTCTGTCTC
AAGTACTCAAATATTTCTGATACTGCTGAGTCAGACTGTGAGAAAAGCTAGCACTAAGTCTGTTTGGAGCTCT
ATCCATATTTTACTGATCTCTTAAAGTATTTGTCTGCCACTGTGTACTGTGGAGTTGACTCGGTGTTCTGTCC
CAGTGGGTGCTCCTCTTGACTTCCCCACTGCTCTCTGTGGTGAGAAATTTGCCTTGTTCAATAATTACTGTAC
CCTCGCATGACTGTTACAGCTTCTGTGTCAGAGATGACTGTCCAAGTGCCACATGCCTACGATTGAAATGAAAAC
TCTATTGTTACCTCTGAGTTGTGTTCCACGAAAATGCTATCCAGCAGATCATTAGGAAAAATAATTCTATTTT
TAGCTTTTCAATTTCTCAGCTGTCTTTTCTTGTGTTGATTTTGTACAGCAATGGAGAATGGGTATATAAAGAC
TGCCTGCTAATATGAACAGAAATGCATTTGTAATTCATGAAAATAAATGTACATCTTCTATCTTCAAAAAAAA
AAAAAAA

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FIGURE 2244

MAAAAAAGAGPEMVRGQVFDVGPRYTNLSTYIGEGAYGMVCSAYDNVNKVRVAIKKISPFHQTYCQRTLREIKIL
LRFRHENIIGINDIIRAPTIEQMKDVYIVQDLMETDLYKLLKTQHLSNDHICYFLYQILRGLKYIHSANVLHRDL
KPSNLLNTTCDLKICDFGLARVADPDHDHTGFLTEYVATRWAYEIMLNSKGYTKSIDIWSVGCILAEMLSNR
PIFPGKHYLDQLNHILGILGSPSQEDLNCIINLKARNYLLSLPHKNKVPWNRLFPNADSKALDLLDKMLTFNPHK
RIEVEQALAHFYLEQYYDPSEPIAEAPFKFDMELDDLPEKLEKELIFEETARFQPGYRS

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FIGURE 2245A

CGCGACTGGAGCCCTGGCCAGCGCGCAGCCTTCCCGGCGCCGGCGGGCTGGGTCTTGGGAATTCTGGTTTGCTTT
GGCTCACTCGCTTTTTTACAAACCACTGGATCTTACATGCCTCTGTACCCCCACTTCCACTCCATGTCCCCATGC
TCCTGCGCCAGCAACAGGACATGTTCTCTGGATGTCAGCTGAGTCATTAAAGTAACCTGTCATGTCAGTAGACAG
ACCTTGGTAGAACCAACAAGGCTCCCAGAGACACCCATCTCTCCTCATTTTTTTGGTGTGTGTCTTCACCGAAC
ATTCAAACCTGTTTCTCAAAGCGTTTTTGCAAAAACCTCAGACTGTTTTCCAAAGCAGAAGCACTGGAGTCCCCAG
CAGAAGCGATGGGCAGTGTGCGAACCAACCGCTACAGCATCGTCTCTTCAGAAGAAGACGGTATGAAGTTGGCCA
CCATGGCAGTTGCAAATGGCTTTGGGAACGGGAAGAGTAAAGTCCACACCCGACAACAGTGCAGGAGCCGCTTTG
TGAAGAAAGATGGCCACTGTAATGTTCAAGTTTCATCAATGTGGGTGAGAAGGGGCAACGGTACCTCGCAGACATCT
TCACCACGTGTGTGGACATTGCTGGCGGTGGATGCTGGTTATCTTCTGCCTGGCTTTCTGCTGTATGGCTGT
TTTTTGGCTGT
TGTCGAGGTCAACAGCTTCACGGCTGCCTTCT
GATGTGTACGGATGAATGCCAATTGCTGTTTTCATGGTGGTGTTCAGTCAATCGTGGGCTGCATCATCGATG
CTTTCATCAATTGGCGCAGTCATGGCCAAGATGGCAAAGCCAAAGAAGAGAAAAGAGACTCTTGTCTTCAGTCACA
ATGCCGTGATTGCCATGAGAGACGGCAAGCTGTGTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
TGGAAGCTCATGTTGAGCACAGCTCCTCAAATCCAGAATTACTTCTGAAGGGGAGTATATCCCTCTGGATCAAA
TAGACATCAATGTTGGGTTTGACAGTGAATCGATCGTATATTTCTGGTGTCCCCAATCACTATAGTCCATGAAA
TAGATGAAGACAGTCCCTTATATGATTTGAGTAAACAGGACATTGACAACGCAGACTTTGAAATCGTGGTCTATC
TGGAAGGCAIGGTGGAAGCCACTGCCATGACGACACAGTGCCGTAGCTCTTATCTAGCAATGAAATCCTGTGGG
GCCACCGCTATGAGCCTGTGCTCTTTGAAGAGAAGCACTACTACAAAGTGGACTATTCCAGGTTCCACAAAACCT
ACGAAGTCCCCAACACTCCCCCTTTGTAGTGCCAGAGACTTAGCAGAAAAGAAATATATCCTCTCAAATGCAATT
CATTTTTGCTATGAAATGAAGTTGCCCTCACAAGCAAAGAGGAAGACGACAGTGAATGGAGTTCAGAAAGCA
CTAGTACGGACACGCCCCCTGACATAGACCTTCACAACCAGGCAAGTGTACCTCTAGAGCCCAGGCCCTTACGGC
GAGAGTCGGAGATATGACTGACTGATTCTCTCTGGAATAGTTACTTTACAACACGGTCTGTTGGTTCAGAGGCC
CAAAACAGTTATACAGATGACGGTACTGGTCAAGATGGGTCAAGCAAGCGGCCACAAGGGACTGAGGCAAGCACA
ATGGTTTTCAAAGAAAGACTGTAAGCTCCATGATTAGCATAAAGCACTAACCATGTCTCCATGTGACCCGATGGCA
CATAGATGTTGTAGAATAAGTTATGGGTTTTATGTTTTGTTTTGTTTTTCCAAACTTGAAGTGCAGGCAA
GCCTTGGTTGGGTATTTGATTTATCCAGAATGCTTCTCTTTAGGGAACAAGGATGTTTTTAATGGCATAACAAAG
GCAAGACTCTGCCTTAATTTTTGAAAAGCTGCTAACTACATGAACACAAATGTGATTTTTTGTGAGTGTAGTT
TTCTTTTTGTGTAATTTTTAAAGTCAGTGTGAATTTTATTGAAAGCTCATGATGCGCTTCAAAGTGGCAAGTATT
TGGCTATTAAGTCCAAAACAAGAGCCTGATTTTTTGGAGCCAGTAATTCGTTTGTAGAAATTGATTTTTTTCT
CTCTCTCTTTGTTACATAAGGGCATTATGTAACTAGCCGAATGGTAGCCTCTGGGTTGTTGTTTTTTCTTTT
CCTCCATGATGTTAATGGGTTATCTCAAATTTTAAAGTTAACTACCTAAAATAAATACCAAAGATAATGCATATT
TTTGACAGTGGAGCTTACACTTAAAGAAAACAAAGCCCCATGGGCTGCCTTGAATCAAGAGACAATAACTTT
GAACCTCAGCAAGACCTTGAACCGCCGGTTTCAATTTGCACCTTATTCAGAAAATAGAGCATCATACTACCCGAGT
CTAGTCAGTGTAGTGCTTTTTAAAAATTTTGTCTTTTCAATGTAACCTTTTTTATTTTAAAGAGGAAGAAGAAGAGG
GGCACACACACACAATACCGACGTCTATCCTTTCTGCTAGGCAGTGTGCGCAGGCTCATGTGTAGTGTGCGAG
ATGGTGTAGTACTCTTATATTTTTCTGGGCTTTTCTTTTGCACATTCCAAATTCATTTTATAAGACAAGATCT
TCATAGGACCTCCTTGGCATCCTGGCATTCTCAAACCTGAGCCATCCAGCATGAAAGATAAATGGGTTTAAACCC
TTGCTGCTGAATTTATTGCTGGACTGTGAGGACATCACCAGCCACCTTACCTTAGGGAAGATGCCACACCTG
GCCTCCACACTTGCTCTTCTGATCAGTCTGTCTGGATTGAGTCTACAGTGTGAGATAGGGCGGCAATGCCAAA
GCAGGGAAACAGGGAGGTGTGGACAAGCCAGTTTGTGAGCACTTCAGATCAAGTGTCTAGGAAGGAGAGGAAA
CTTGCTTTTTTATGGCAGAGGATAGTAATGAAAATGTCTCAGTATTTTAGGGTCAATGAGAGCCATAAAAAATAT
AACATAATCACAAGTAAAGGAGATAATGGTCTAAAACAGCTATTTCCCTTTTCTGTGTGCATACTTATGACTGAA
TGTGAGCTAAGCATTTTCTCTGTGGAGCCCTAGAGCAGGTTACTAAGGAAGGACACATTGTTTTCCAGAAGCCT
CCCCTGCCTGGCTGACTGCCTTGTAGAAACATAATTTTTTTTTTCTACTGAAGCTCAATAATGGAACCTTTTT
TTTTTTTTTTTTTAATTTAAAGTTCCCTATTTGTGAATCTGGGATTACTGACTTTTCTTTTTTAATTGGAGTCTC
AAAATCAACTCTCTTATGGTATTATATCTCTGTATGCCATTAAAAACAGCTTGTCTAGAATCATGTATTTGT
AAACTGATGTTTGTGATGGTCTCTGTTCTTGAACAGCCATATCTGAATGCCGTGCCTGCAAACTATGACAATT

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FIGURE 2245B

TTTGCTGTTTTTCAGCCTTCAGATTTGATGGCTTGGGAACTGAGGTGTTATTTTCAATGAAACAAAGAAAGAGAT
GTTAAGCAAGTGGTTGTTTTAGATCCAAATGTAAAGGCAGGTTTGGGAAGGTGTTTAAAGAGTTGGAGGAATTGG
GGATTGAGTTGTAAAGAAAACCTTACAGAAGAGGCAACAATTTGGTTCTTGACAGTGAGAGGATATTGAGGGCTTC
AGCTGCTGCTATTATGATGTTTTGCAAAGGAAAATAATCAAACCAAAGAGTATTCAGTGATATGTAAATTAAATG
AAGATACAGTGGAGAATGGGGGTGACCACAAAAGAGGCTCCCCCTAAACACACAGTGCTGCCACTTAAAAAGACT
TGAGAAATTTGAAAGGGGGTGGGTATGGGGGGGCAAGAAAGAGGGAGGGAAATCTTTCAACTTATTTCTGAAAA
AGAGAAAAAATATAAAATTTCTGGTGCACAGGTTTGTTTTTTCAAGAAAATTTTGAGAAGCTATGTTTTTAA
GTGTACATTTTATAAAGTTTATCAGATATTTTCATATTTAAAGCCAAATGTAAATAGAGGTCTGTAAAGAAAAAT
AATTGCCATAGAAAGTATAATTTTCAGTGCAGTAATTTCTGAGAGCTAGTACCTATATGCTACCGGTTAGCATGGT
TTTAGCAAATATATACCAGCCTTATAAGGTTTCGTATTGCTATGTTCTTCTGTTATTTTATTTTTCAGCATGGACTGTT
CATTTGAAACCTTTTTCTAGTTATTAGCGTTTTAACAGTTACAAGCTTTAAATGGCAATTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTGTCAAGAGCCAAGACACAGGTAATGCACGACATTGATTGCTGCATTTTACCTTCAAAA
TATTTGTCCTTATTGACTGGGTCTCCTTAATTAATGTACACATGTATTAGAATGCAGACGGAGGGGACTCACCA
TGAATATCTGGGGTTGATTCCCAGATGTGTGTTGCTTCTCTATTGCAAGCAGATTCCCTGTTGGATTACTTCGG
ATTTATTCCTTTTTAAAGAATTTTTGCCCATATCTGGAAGGGCACTATATTTTGGGAGGAGCCATAGATTCCTG
GTTATCCTATTTTTAAACAAAATGTAGACAAAGTGAACCTCTATTTTGATTATTGAGAAAGGAGTAGTTTTCTATC
CCTCTAAGAGTATACTTGAATCAGACATTTTAAGGATGTCACTATGGCACTGTTGTCAATTTCCAAATTCCTAGAA
AAGTTTGTTTTACTTTGTTTTTATTCGTGTTAATGCATTCTTTCTTCTTTTACTTCCTTTCTTACCAGTACACTC
CTATCTCAACCTCTGTTTATTTGATGAGTTCGTCCCGTAAATCATATTTCCCTTACAATTAATAAATGTCACTTC
ATATTTTATAATAAACCACTCAGTAAAAGCAAAAGCTTGTCTGAGAAGTAGAGTGAGTTCTTTTCACTCTGTG
TCTAATAATGTTAAGGTGGGAAAAAAAAAAGTGTGGCATAGCTACCTGCCCATCCCCAACCTCAGCAAAGTAGA
ATCTCTTTTCTGGTAATTTTGGGTTTCCGCTCTGGGCTCTGGCAAGTTGAACAATCCTAGCCATTGACAATCGTG
ATAGTTATTATTTCCCATTTGCTGTCTTTTTGTATCTAAAGTCTTCCTATTGTACTGCACAAACCATGGATTGT
ACATATTTTATATATTATGTCTTATTTTATTATTTCTAAATAAAAAAATTAAAAATTGAAAAAAAAAAAA

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FIGURE 2246

MGSVRTNRYISIVSSEEDGMKLATMAVANGFGNGKSKVHTRQQCRSFRVKKDGHCVQFINVGEKGQRYLADIFTT
CVDIRWRWMLVIFCLAFVLSWLFFGCVFWLIALHGDLDASKEGKACVSEVNSFTAFLFSIETQTTIGYGFRV
TDECPIAVFMVVFQSIIVGCIIDAFIIGAVMAKMAKPKKRNETLVFSHNAVIAMRDGKLCMWRVGNLRKSHLVEA
HVRAQLLSRITSEGEYIPLDQIDINVGFDSGIDRIFLVSPITIVHEIDEDSPLYDLSKQDIDNADFEIVVILEG
MVEATAMTTQCRSSYLANEILWGHRYEPVLFEEKHYKVDYSRFHKTYEVPNTPLCSARDLAEKKYILSNANSFC
YENEVALTSKEEDDSENGVPESTSTDTPPDIDLHNQASVPLEPRPLRRESEI

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FIGURE 2247

AGATTGTTCTGGCAAGGAACAGCCAGTGGGAGGTTCCAGCTGAGCGCTCCCCAGAGGTGAGCTGATCCCCAGCCA
CAGCACACAGGACCAGGCTGCGAGAACAGCATCATCAGCATCATGCTATTACAATCCCAAACCATGGGGGTTTCT
CACAGCTTTACACCAAAGGGCATCACTATCCCTCAAAGAGAGAAACCTGGACACATGTACCAAAACGAAGATTAC
CTGCAGAACGGGCTGCCAACAGAAACCACCGTTCTTGGGACTGTCCAGATCCTGTGTTGCCTGTTGATTTCAGT
CTGGGGGCCATCTTGGTTTTTGTCTCCCTACCCCTCCCACTTCAATCCAGCAATTTCCACCACTTTGATGTCTGGG
TACCCATTTTTAGGAGCTCTGTGTTTTGGCAATTACTGGATCCCTCTCAATTATCTCTGGAAAACAATCAACTAAG
CCCTTTGACCTGAGCAGCTTGACCTCAAATGCAGTGAGTTCTGTTACTGCAGGAGCAGGCCTCTTCCTCCTTGCT
GACAGCATGGTAGCCCTGAGGACTGCCTCTCAACATTGTGGCTCAGAAATGGATTATCTATCCTCATTGCCTTAT
TCGGAGTACTATTATCCAATATATGAAATCAAAGATTGTCTCCTGACCAGTGTCAAGTTTAAACAGGTGTCCTAGTG
GTGATGCTCATCTTCACTGTGCTGGAGCTCTTATTAGCTGCATACAGTTCTGTCTTTTGGTGGAAACAGCTCTAC
TCCAACAACCTGGGAGTTTCATTTTCTCGACCCAGTCACAAGATCATATCCAACAGGTCAAAAAGAGTTCTTCA
CGGTCTTGGATATAAGTAACCTCTTGGCCTCAGAGGAAGGAAAAGCAACTCAACACTCATGGTCAAGTGTGATTAG
ACTTTCTGAAATCTCTGCCATTTTAGATACTGTGAAACAACTAAAAAAAAAAAAAGCTTTGTTTTGTATTGT
TTACTATGAGTCGTTATTTAATTTCTTTGAAAATAATTTCTCAAAGCCCAAGTCAATAAATGTTATCAGCCAG
TCTTCCAAATGGTCATAAACTTTATAAACTGCTTTGGGTAAACTGAGCAGAAGGTGATACACAGAAGGGAAAAT
GTGCACTCATGCTAGTGTGAATTTGGTAAGTCGCGTGACTCTGCAGGCTGTTTCTGTATTATTTTCACACTCATA
TTGCTTAAATATTACATATTAGGGATTG

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FIGURE 2248

MLLQSQTMGVSHSFTPKGITIPQREKPGHMYQNEDYLQNGLPTEITVLGTVQILCCLLISSLGAILVFAPYPSHF
NPAISTTLMSGYPFLGALCFGITGSLSIISGKQSTKPFDLSSLTSNAVSSVTAGAGLFLADSMVALRTASQHCG
SEMDYLSSLFPYSEYYYPIYEIKDCLLTSVSLTGVLVVMLIFTVLELLLAAYSSVFWWKQLYSNNPGSSFSSSTQSQ
DHIQQVKKSSRSWI

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FIGURE 2249A

TTCAAGTATGGCAGACAAAGGATGTTCTGCGTGGGAAATGTGGTGACACCCATTTACAAGGACAGCTCACATA
GATTGAGTGCTCAGGAAGGACCAGCACCATAACCCAGTGCCTGATGTGTATCATCTCAATTAGTCCTTGCCCTCAGA
TGCAAAAGGAAACCATCGCCATCATCATCACCACCATCATCAICTTCTCCTGTGCAGATGGAAAGGCTGAGGCA
TAGAGAGGTGACGGAGTCTGCCAGGACTGCAAGCCTGCTGGTGGCAGAGCCAGGTTCCAATGGAATGAAGGCTG
TCATCCTCAGATGGCAGGGTAGGCAGGTGGCTAGAGCTCACTTGGGAGAAGGGGAAAGGACACTGACTTTGGCTA
GGGATGGAGCAGAGCTTGGGCTGGCTTTCCATGCACGGGCAGGGGGCGTGGCTCATGGCTACGCTCCAGCCCCGG
GTGTGGACATTGAATCTTCCAGGTCTACCCTAGGCTATGGGTCTGGACAGCACTGTGATGGAAAGAAGCACTCT
ATGTCTCTGCATTCTGTGACCAATGATGTGACTGTGGGAATGGCGCTGGCATCTGGCTGCCACTCTGGGACGGGTG
GCCAGCTGCCATCAGGCCCCACCCAGGATGGGACCACCATGCGACTTCTTCCCTCGCTCCTCTGGTCATGTCCA
GAGCCCCAGGAGGACCAGCAAAAGCCTCTCGAGCCGATGGCAGCTCACGTTCTGCCTTGTGAGCTACTCTCTCTCT
GGGCAATATTGGCTGCTTGTGTGGCTCTCCCCGGGGTATGTGACTGCCTCTGTGCTGGGCACCTGGCCTGGGCT
TTCCTTCTGGGCTGGGCAGCTGGGCTCAGCTTGGACCCAGGCAGCAGCCACAGAGGGGCCCATGGAGGTGACAG
AGTGTCTTCTATGATGGTGAACGGGCAGCTGTGACACGGAGGAGGCGACCACTCCTCAGTTTCCAAGTGTGCGG
TCAGGGCCGGGGCCAGCAAAAGTCCCTCCCATATTCAAAGAGCGGGTTTGGGTTTGTCCAGGAGGACATAGTCAG
GAGCCCATGCTGGGACATGCCTCCTCAAAGTTTCCAGCTGGATCCCCAGCCTCTGCCAACGGCCCCCGCTCCTTAG
CTAACCCAGCTTGTCTCCTGGGTTCCACGGCGGAGTCAGATGTTTCTGGGCAGTTTACCTTTGTGCCTTAAATGC
ATGTTGAGGACITTAAGGAATTGTGGAGAAATAGGGCTGTGGCAAAGGCAAGTGACAACCTGGGAACAATGATCCC
GCAGAGGCTGCTGAGGCCTGGGCCCCAGGGGCGTGGGTTTCATCCTTCTGCCTGGGCTTTGGTGGGAGGGGCAGAC
TCTGTGGTCTGAGACACAAAAAACCACCAACATATGTGTGTACAGACACACAGCAGAGCCACACACACTTGT
GCCCATGCACACACTCACAGGAGGCCCGTGGACTCCGCACAGGGAAGAACTCCTCCGGTCGACAGTGGACGGCG
CTGCAGCAGGGACTCACCCCCAAGCCCTGCCTGCCTCCCATGCCCACCTGGCCCTGGCTTCATGGGCTTATCTC
ATGCTGTGGCCGGGGACCTCTTGCTTCTGCAACCCCTTGTCTGGACTGGGGCTGGGCCTCTCCTGGGCTGTGCC
TAGGGTTTGTAAACCCAGGGCCTGTGCCGGCGTGCACAGAGCATCTCTCCCTGGGAGGCTCAGGGCTGCCTCCTCG
AGCTCTGTGGGCCTGCACTGGCCGGTGTGCTTGTGGTGTGGGTTTTAGGCTGTATCCTTCTACCTCTCTAGAGCCC
AGGGGTCCCAGGCGCCCTGCAGCTGTCTCCTCGGCCATCCTGTGGGGCCCCGAGGCCTTGGCCTCACTTCAGTGC
CTGGGTGCTCAGGCTTTGCCAGGTGCCAGGAGAAGGTGTGAGCATGAGCCTATTGGACACACCTGGCGACGTAT
ACCAGGTGTCCCACCCCTGCCACCATGGGGCCTCCCGATACGGCAACCACCACGGACCTGTGGGGACCAATGAGG
AAAGAGAGAGGCAGGTCTGGGCCAGGCTCACAGGGACTCCGGCATAGCAGACCCTGCCCCAGCAGGCCCCCTTGT
CCTTCTGGGTCTTGGTCTTTCATGAGGAAGTACCCATCCCTGGTGGGGCTCCACCCCGCTTCTCAGTGGGCT
CTATGCTTGCCTCGTGGAGTCAACCCCTCAGGCAGTCTGGGATCCTCTCCTTTAGACCCACTGTGCCTTCCCGG
CCTCCCGGGCTTCTGTGGGGGCAGAAGAAATGCCTCCCCAGGTCTGTCTCTGGAGGCTCTGAGGGAGATGGGCT
TGGGGGCTGTAGGAGGAGGCAGGGATTCCAGGGTGTGAGGAAGGCAGGGGTGCCAGGTCCCACCTAGTGAAGTAA
TAAACCGTGGGTGGTGATAGTGACCCAGTGCCTCACTGCCAGCCCCGCTGTCTCAGCCAGCACTGCAGGGA
TCCCAGGCCAGACTCTGGAGGCCTTCACTGATCCCAGCCACCCAGAAAAGCTGCAGCCTGCAGGCACCAAGCCG
GGCCATATGCCAGTGCCAGCTAGGGCCCCACGCCATCCTGCACACGGGGCGCTGGGCAGGTGCCCTCACAC
CCCCAGGATGTGAGTGTACCTCGAGCAAAGCGCCCCAGCTCGGCCCTGGGAGGTGGTTCATGTCCAGGGGGATG
ATGGAGAGCTGTCCAACCAAGAGAGCGGGAGGGAGGGAAGGAGGGAGGAGAGATAGAGAGAGAGAGAGAGAG
AGAGGAAGTGTGGGGCCTAAGGCTGCCTTAGTGGAGGTGCGCTGGCCTGCACCTCACCAAGCCTAGCCACTCTC
GCGGCTCTGAGTGGCTCACAGGCTTGTGAGGGCCCCGTCGCTGCCTGTGGGTCCCCACCAGGGCTCCCTCTAGG
AATGCGCCATGGCTGCTATGACAATTTGCACAGCCCAGTGGCTTAAACACCATTATACCACAGGTCCAGATGAA
TCCTGCAGGGCCAAGGTCTGGGGGTGTGAGGGCCATGCTCCCTCCAGGCTTGGGGGAGAACTTCCCTGCCTCC
TCCAGTCTCTCCATCCCTGAGCTCTCGGCTCCTCCTCGTCTTCAAGGCCAGGGCGTAGCGTCTGCTCTCTCGGC
CTCTGCCTCCGCTTCCACCTCACCTGGCTTCTGTCTATGTGAGTCTCCTCTGCCAACCTCCTAGAAGGACACT
TGTGATTACATTAGGGCTCACCCCTTTAATCCAGGGGAGCCTCTCCACTTCATGATTTTCAAGTAACTTGTCTCT
GCACAGACCCCTTTCCCTATAAGGGCACACATTCACTGGTCCCGGGGCTAAGGACCTTGTCTCAAGTCCCTCCA
CCCATGATGCTGTGCCTTCCAGAAACCTGTCTCTGCAGCTCGGTCTTGACCCAAGCCTGCTGGTGACCTGAAC
TTCACAGGGTTATCCCCTTGGACTGTGTGACGACGATGCAATTCTGGGCCTGAATGTGATGCTCCTTGGGGCA
GGACCTTGAGCCTGCAGCACACACTAGGCCACCTGCAGTCTCACAGGCCATGCCCTGGGTAGACAGGGAGGTGCT

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FIGURE 2249B

CAACCCAGCTCGGGTCTCTAGTCTGCCTGGCTACCATGCTTCTCACTCTCCTGCATCTGCAGACCCCTGCGTTG
CCATGTGAGGCAGGGGTGGGGTGGGGCTGAGGGCGTGGCTTTGGTCCCTGGCTGTCCGGATGAAGTACCAGAGTG
ACGCCACAGCCCATCCCGGTGACATGCTCACCCCAACCCCGTGTCCGGGACCCCGGTCTTGTGTGGTCCCTGA
TGTGGAGTCCCTCAGTCCCTTAAGATACATCCAGAAAGTCTGGCCATGAATTGGAGGTGCAGAGTCTGCAGAGCC
TCTGGGCTGGGCTGGTGGCCCCAGGAGATGGAGGGCCTGGTGGATGCCCTCCTCCCTCAGAGCTGGGGCAGCTGC
CTCCAGGGGTGGGACTCTGGGCTCAGAGAGAGGCCCTTGAGCTGCAGCTCAGGGGGATGCGAGGCTTCGTGGAC
TGTGTCTGTGTCATGTGGTGCACGTGTCTCCACCTCCAAGGAGAGGCTCCTCAGTGTGCACCTCCCCACATCC
GTCTCTCTGCGGCCCCGGGCTCTGAGCAGTCAATCCATGCCAGCACCTCTGCAGCCTGCTGGGCTCAGGTT
CTCTGTGAGGACCTCCCGGCTTCGGCGGAGGTGGAGTAAGCTCCGTCAAGGCAGGTGGCTTCGTCCCTTCCT
GTGAGTGACACAGTGATGAAATGGACCCCTCCACACAGGCATCCTCAGGGCACAGGGCCCTGGGGGCACCTTCC
TCCTTTCTGATTGTGTGAGAAAAAAGTGGCATTGCGCTCACACCAGGATGCTGGAGCAGAGCTGACATGCTCGG
GAAAGGGCAGAGTCACTGGGGGTGGGAAGGTCACTCAGTCCAGACTCAGCACCTCGTGGGCTGGTAACTGAGG
CTCAAAGTGTGGTGCCAGGCCTGAGGCCTCGCGGTGACCCCTCTCTGTGTTCCAGCACCTGCCTGAGACCTG
CCCCAGGCACCCATAACCTGGAATTCCTGTTTCTTGTCCAGGGCCTGAGGAAATGGCTCCCCAGGTCTGTCTC
TGGATGCTCTGAGGCAGATGGGCTTGGGGGCTCTAGGAGGAGGCAGGGACTCCAGGGTGTGAGGAAGGCAGGGGT
GCCGGGTCCACCCAGTGGAGTAACAACTGTGGGTGGCGTTTGGGCTCCCCGCTTCCCCACTGGGTGTGCTG
GTGCTGGCGCTGTGGGTGAGGGCTGCCCGTGACCCAGACACCCTGTCCATCCTGTGAGGCTCCCGTCTGGGC
ATGTCTGGGTGATTCCCTCTTTCTGTAAAGTAGCTACATGAGGCAGGGGCTCCTGGATCCAAAGCAAATGACA
GGAATTCCAGAGCCAGGTGCATCCACTCAGGGCAGCCAGTGTGGTGGAGCTGCCTCTAGCACATGGAGGAGAGT
GAAAGTCAGCCTGCCCTCTCACGAGAAAAAGAACCTGGGGATACCTCTCAGCCTCCAGCGTTGCAAGTGAAGGC
CAGTGGAGTTAATCTGCAACGTGCACGAGGGCGTGTGTGCTGAGTGGTGTGTGCAGGAGTGTGAGTGAGCAAGAGCA
AGAGCGCATGGCTCCTGCTGTACCTCAAGGTGTGGGCTCCTGGTGGCTGCTCAGTGTCCCAGGGGTGAGAGGCC
TCATGTATCCTAGGCTGCCTGAGATTTCTGTGTGCTGATCGCATCCTCAGTTTCTTGTCCACCGCTTCACTGGCA
AGAGTCCCAGGCTCCAAGGACACCCTCCCTGCACATGATTGGGTGTTAATGGTGGCCTGGGTGTGTCTTCCCT
GGGGATGAGGGTTGGGTGTCCATGGTGCCTGGGCTGTGTCTCCCTAGGGATGAGGGTGGGGCTCCACGATG
CCCTGGGCTGTGTCTTATGGAATGAGGGTGGGTGTCCAAGATGCCCTGGGCTGTGTCTTCCCTGGGGAT
GAGGGTTGGATGTCCAAGATGCCCTGGGCTGTGTACTCCCTAGGAATGAGGGCTGGGTGTCCAAGATACCCTGG
GCTGTGTCTCCCTGGGGATGAGGGTGGGTGTCCATGGTGCCTGGGCTGTGTCTCCCTGGGGATGACGGT
TGGGTGTCCATGGTGCCTGGGCTGTGTTCTTGGGGATGAGGGTGGGTGCTATGGCATCTGGGCAGGTGCT
TCCTTTCTGCACAAGGGTGGGTGACCATGATGTCTGGCAATGGCTTCCCTGGGTGCTCTTTCTGCCATGT
GGGAAGAGCAGGGGAGGTTAGTTGGTCTCAGCACATCATTCTCTCAGGATAAGTAGAAGAGTGTCTGAGCTGTG
AGGCCAGTGCTCCAGCTTTGGAATTGTCTTCCCCACCCTCACCTCCATCCATCAAAGCCGACATGTGCTGTGG
CAGCAGCGAGGTGGGTGTTGGCTGTTCTTGGGCTGGGGGTAGTCTGTGGACGGGGAAAGGAGAGATGCTGGTC
AAAGGGCATGAAGTTTCTGCTGATGGGAGGAGTCAGTTCTTTTGATCTGTTGCACAGCATGGTACTATAGTTAA
CAATAATGACTATTTCAAATTGCTAAAAGATGAGATTTTAAATGTTCTACCACAAAATGATAAGTGTGTGAGG
TGATGGATATGCCACTTACCTTGTTTAAATCATCCACAATATAGACAGGCATTGTCACTTGTGATTGTACCCCA
GGAATCTTCACATTTGCTTTTGTCAATTAATAATAGAGACAAAAGGAGAGAGGGGAGAGCAATAGACTCTT
CACGGAACCGTGGGCTTCTGCCTCCGGGTAAATAAACTGCAAAAAGGATTCCAGGAAACCGTTCCTCTTTCA
GCCCTTGGTTACAGGAAGCCGATTGGGAAATCTGCCTGGATGACATTACATGAACGGGCACATACAGGAAAA
CACGGTAATGTAATTAGAATAGTCAGAGAAAAGTAGCCAGAAATGACATTACATGAACGGGCACATACAGGAGA
AAACACGGTAACGTAATTAGAATAGTCAGAGAAAAGTAGCCAGAAATGACATTACATGAACGGGCACATATAGG
AGAAACCATGGTAACGTAATTAGAATAGTCAGAGAAAAGTAGCCAGAAATGACATTACATGAACGGGCACATAC
AGGAAAACACGGTAATGTAATTAGAATAGTCAGAGAAAAGTAGCCAGAAATGACATTACATGAACGGGCACATA
CAGGAGAAAACACGGTAACGTAATTAGAATAGTCAGAGAAAAGTAGCCAGAAATGACATTACATGAACGGGCAC
ATACAGGAGAAAACACGGTAACGTAATTAGAATAGTCAGAGAAAAGTAGCCAGAAATTTGCAACGTGCCCTTG
TAACACCAAATTTGATCAGTTTTTAAAAAATGATCGTTATGTAGGTGATTGAGAAGTAAATGTATTCTTTTTTA
AGGTAAAAATTTGGACCCTTATCATGCATACCCCTCTGTGCTTCAATCAACATCATTATTAATATCTGTA
CATTTTGTCTCATCTGAGCCAGCACAGGCTGAGGCTGTGAGATGGACACCTTTTGGTGTGGGTTTCTGTGAG

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FIGURE 2249C

TTTCTGGGGTGAAGCTGCGTGATTGAGAACGTAGCTCTTGGCTGCCATCTCGGGGATTATTAAGGACTGTGAAC
CTATCCACAAGCCATGGCAATATCTGTCCCACCGAATGCTCCCTCTAACACACTCTTACTCCCGTGATGTGTGT
AAGGGCTCCGATGATGCTGAAAACAGCACAGGATGTGAAAAGGCAGGAACAGTTCTGAAGTCAAAGGCTGATGTC
CTGTTTCTCTTCCCTCTGTGACCGACTCCCTTCCCAGTGGTAACAAGTACCCACAGCTTGGTTTGAATTTCTGC
ACGCTGTTGTCTGTGCACTCGCTCACACTTACGCACACAGCAGGCATGTGGGCGATGCTGGGTATTTTGTGTATG
AGTGGGATGCACATACACACATCTACATCCATATCATGCCCATGCATCTGTAACCTTGCTTTTCCCGTGTAAGAAC
ACTTCTTAGAGTTTGTTCAATGCATGTGTCTGTGTGAATGATTGAAGGCATTCTAACCCATTTTAAAGATGGCT
ACTTAGGACCATATGGATGTTGTACTGATGTCAATTTGACCACGTCCATTGTTTCCATCTTTTGGGCTGTTCTTGT
GTATTTTACTTTCCATGTAAACACTGTGACATTGAGAATTGGTACCTACAACAGTCTATTTGCTTTACATTAAATT
TGTAGGCTAATTTGTGTAAAAA

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FIGURE 2250

MGLSHAVAGDLLLPATPCWTGAWASPGCLCLGFVTQGLCRRAQSISPWEAQGCLLELCGPALAGELVVWVFRLYPS
TS

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FIGURE 2251

CCAGAAACAGACCTGGGAGTGGAACAGCAGCAGTTAGGAGAGGACCCTGCTGGGGTCCAGGAGCCCGCCTGCCTG
GCTGCCCCAACAGCTCCAACTGCTGGAGGCTCCATTCTCTGTTTCAGGGGAAGGCCACTGGTTAGCTCAGAG
ATGGCTTCTGCGTGCTTTTCCCTTCCGTCTAGAGAACACATATTTTCTGTTTCCCTCCCTTGCCTTCTCCACT
TGGACCTGCTCAGAGCCCTGTGTACTCTGGTGTGIGGCCCTCTCTCCCTCTCTCTTTTCTCTCTTCTGGATTCTT
TCCTATCTTTCATCCACAATCTCTACCCCTTTATCTTGCCGTTACTCTACCCCGAGACTGCCTTCTGCCCTGGGTCC
CACCAAATAGATCCTGTCTTCCCTTAGTGAATAGAGGCCACTCTTGGGGAACAGAAGACGCCCCAGTGAAAA
CAGAGTGCAAACCTGGCCTGGCATGGGAGCCTCCTTCTGGCCAATCAGGCAGGCCAGAGAACAGCAGCGGAGGGC
CCTGTCTTTCAGGCAGACCTCATGGCTGAGTGAGCCTCCCTGGGCCAGCACCCACCTCAGCATGGTCCAAGC
CCATGGGGGGCGCTCCAGAGCACAGCCGTTGACCTTGTCTTTGGGGGCAGCCATGACCCAGCCTCCGCTGAAAA
AACGCCAGCCAAGAAGCATGTGCGACTGCAGGAGAGCGGGGCTCCAATGTGGCTCTGATGCTGGACGTTTCGGTC
CCTGGGGGGCGTAGAACCCATCTGCTCTGTGAACACACCCCGGGAGGTACCCCTACACTTTCTGCGCACTGCTGG
ACACCCCTTACCCGCTGGGCCCTTTCAGCGCCAGCCACCCAGCCCCAAGCAACTGGAAGAAGAATTCTGAAGAT
CCCTTCAAACCTTGTCTAGCCCCGAAGACCTGGACATCCCTGGCCACGCCTCCAAGGACCGATACAAGACCATCTT
GCCAAATCCCAGAGCCGTGTCTGTCTAGGCCGGGCACAGAGCCAGGAGGACGGAGATTACATCAATGCCAACTA
CATCCGAGGTATGACGGGAAGGAGAAGGTCTACATTGCCACCCAGGGCCCCATGCCAACACTGTGTGGGACTT
CTGGGAGATGGTGTGGCAAGAGGAAGTGTCCCTCATTGTCTGCTCACTCAGCTCCGAGAGGGCAAGGAGAAATG
TGTCCACTACTGGCCACAGAAGAGGAAACCTATGGACCTTCCAGATCCGCATCCAGGACATGAAAGAGTGCCC
AGAATACACTGTGCGGCAGCTCACCATCCAGTACCAGGAAGAGCGCCGGTCAGTAAAGCACATCTCTTTTCGGC
CTGGCCAGACCATCAGACACCAGAATCAGCTGGGCCCTGCTGCGCCTAGTGGCAGAGGTGGAGGAGAGCCCGGA
GACAGCCGCCACCCCGGGCCTATCGTAGTCCACTGCAGTGCAGGGATTGGCCGGACGGGCTGCTTCATCGCCAC
GCGAATTGGCTGTCAACAGCTGAAAGCCCGAGGAGAAGTGGACATTCTGGGTATTGTGTGCCAACTGCGGCTAGA
CAGAGGGGGGATGATCCAGACGGCAGAGCAGTACCAGTTCTGTCACCACACTTTGGCCCTGTATGCAGGCCAGCT
GCCTGAGGAACCCAGCCCTGACCCCTGCCACCCCTCCGGTGGCCAGGTGCCTACCTCCCTCAAGCCTGGGAAGG
TGGGTCTGGGGAAGTGGGCCGAGTGATCTGGGGGTACCCCTTGGGTGGTGTGGGGAAGGAGTGCCTCCTTAGT
GGTGCTTGAGTACAGGAAGCAGCAGCAGTAAGGACAAGGGGCCGGATTCCAGGTCTTCAACACTGGCCACTCC
TCTGCTTCTCTGTTGGCCCCAGATGGACAGTAAGGGGAACCTCCAATGTCTCTCTGAACCTAAAGACAGGAGCT
GGCATTATGACAGACAAAGAAAGAGCCAGGTGTCTGGTGTCTCTGAGACACTCTTTGTGAGCTTCAGTTT
CCTGTTCTATAACATGAACATAAGTGCTTAGCTGCCATGAGGGAAAAGTAATGAGAGAAGTTCTAGAAGCCACT
CCAGCCACTCCTTCTGGGGCTGACAAAAGGGTGATTCCAAGATCATCCTTACCCGAGGTCTGCCCAAGCACA
GGCCAGATGCAAGAATGGGGAAGTCTGGTCTGATCTCCAAGTCTCAACATCCTATCAGTACTCTGCTCCCT
GACCACACATCGGAAGGGCTGGATGACCCCAATCAAAGAAAGAAACAAGGACTCTGGTTACCCCTGCCTCCACCC
ATGTGTCATAAGAGTAGGCTACAGAGGTGACCAGGCTGGCAGTTGAAATCTCTGGAAGAGGGAACATGTGGGGA
CTACTCAGAGGCAAAGAGGAGCTGCTCCTGCCTCCATGGTTGCTGGCCACTCCCACCACTACTCTTAGGGAGGC
TAAGCAGTCTCTGTTTTGCTTCCATGGCTCAAATAATACCCCTGGGTATGCAGGACCCACTATACCTTGCATTTC
TGAGTACACCTAGAGAGCTTGGCTGTTTCCAAAACAATCAGGGTCATAACCATCCATGCAGACATGGAGGCTCG
GCTGAACCAGGACTCCTCACTGTCTACCTGAGAGAATGAGCACCCTCATCCATCTCAGCATCAACACAATTTCC
AGGGGACCTCAGGTCTACCTCAGGACTGAACGCCACACCTCAGGATTCTCTCCTTGAATCTGAGACTGGCTGC
CCATTCTGAGATGGGGATGAAGGTAAGATGCCGCATCACCAGGCACGCCGCCCTGACAGCTGCCTTGATACCAG
CTCTCTGTGGAAACCCCGAGGAGTTGGATCTGGAGAACAGCTGGGCCTCCTCACTCAGGACTTCTCTCCTGAAG
AACACGCAGTGCTAAACTGAGGATGATTTCCCTAATGCTTCTGCTTGGCCTTATGGAGGAGCTGCTCCTTCTT
ACAGCCTTGGGGATGGACTTGCCACACCTCCACCTCCCTGAGCCCTGTGAGAGGCACGACTGTCTATGCCAAT
GAGGCTCGGTGGGGGGCTCTCAAGTGCTGATCTGCTGGGCTCAGAGCCAGCCAGAGGGAAGCAACTGCAC
AGCCCCACAGGCCCTCCCTGGCACTGTCCCCCAACCCATCTCAGAGCTCAGAGGGTACAAGCTCCAGAACAGT
AACCAAGTGGGAAAATAAAGACTTCTTGGATGACTGAC

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FIGURE 2252

MVQAHGGRSRAQPLTSLGAAMTQPPPEKTPAKKHVRLQERRGSNVALMLDVRSLGAVEPICSVNTPREVTLHFL
RTAGHPLIRWALQRQPPSPKQLEEEFLKIPSNFVSPEDLDIPGHASKDRYKTILPNPQSRVCLGRAQSQEDGDYI
NANYIRGYDGKEKVYIATQGMPNNTVSDFWEMVWQEEVSLIVMLTQLREGKEKCVHYWPTEEETYGPFQIRIQDM
KECPEYTVRQLTIQYQEERRSVKHILFSAWPDHQTPEAGPLLRLLVAEVEESPETAHGPPIVVHCSAGIGRTGC
FIATRIGCQQLKARGEVDILGIVCQLRLDRGGMIQTAEQYQFLHHTLALYAGQLPEEPS

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FIGURE 2253

GAGGGCGCGATCCTGGCGTCCCCGACGGCCTGGGGCCCCAATCCAGAGGCCTGGGTGGGAGGGGACCAAGGGTG
TAGTAAGGAAGCGCCTTTTGCTGGAGGGCAACGGACCGGGGCGGGGAGTCGGGAGACCAGAGTGGGAGGAAGGCG
GGGAGTCCAGGTTCCGCCCCGGAGCCGACTTCCTCCTGGTCGGCGGCTGCAGCGGGGTGAGCGGCGGCAGCGGCC
GGGGATCCTGGAGCCATGGGGCGCGCGCGACGCCATCCTGGATGCGCTGGAGAACCTGACCGCCGAGGAGCTC
AAGAAGTTCAAGCTGAAGCTGCTGTCGGTGCCGCTGCGCGAGGGGTACGGGCGCATCCCGCGGGGCGCGCTGCTG
TCCATGGACGCCTTGGACCTCACCGACAAGCTGGTCAGCTTCTACCTGGAGACCTACGGCGCCGAGCTCACCGCT
AACGTGCTGCGCGACATGGGCCTGCAGGAGATGGCCGGGCAGCTGCAGGCGGCCACGCACCAGGGCTCTGGAGCC
GCGCCAGCTGGGATCCAGGCCCTCCTCAGTCGGCAGCCAAGCCAGGCCTGCACTTTATAGACCAGCACCGGGCT
GCGCTTATCGCGAGGGTCACAAACGTTGAGTGGCTGCTGGATGCTCTGTACGGGAAGGTCCTGACGGATGAGCAG
TACCAGGCAGTGCGGGCCGAGCCCACCAACCAAGCAAGATGCGGAAGCTCTTCAGTTTCACACCAGCCTGGAAC
TGGACCTGCAAGGACTTGCTCCTCCAGGCCCTAAGGGAGTCCCAGTCCTACCTGGTGGAGGACCTGGAGCGGAGC
TGAGGCTCCTTCCCAGCAACACTCCGGTCAGCCCCCTGGCAATCCCACCAAATCATCCTGAATCTGATCTTTTAT
ACACAATATACGAAAAGCCAGCTTGAAAAAAAAA

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FIGURE 2254

MGRARDAILDALENLTAEELKKFKLKLLSVPLREGYGRIPRGALLSMDALDLTDKLVSFYLETYGAELTANVLRD
MGLQEMAGQLQAATHQGSGAAPAGIQAPPQSAAKPGLHFIDQHRAALIARVTNVEWLLDALYGKVLTDQYQAVR
AEPTNP SKMRKLF SFTP AWWNTCKDLLLQALRESQSYLVEDLERS

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FIGURE 2255

GGGGGAAGTTGCTGGCTGACTGGGCTTGCGAGGAAACCGCCTCGGAGCTGCAGCGAAGGCCAAGGAATCACTGAA
GATCGGCGAGGGAGGACAGGGGGTTCATCATGGGTGGCTTTTTCTCAAGTATATTTTCCAGTCTGTTTGAACTC
GGGAAATGAGAATTTTAATTTTGGGATTAGATGGAGCAGGAAAAACCACAATTTTGTACAGATTACAAGTGGGAG
AAGTTGTTACTACTATACCTACCAATTGGATTAAATGTAGAGACGGTGACGTACAAAAACCTTAAATTCCAAGTCT
GGGATTTAGGAGGACAGACAAGTATCAGGCCATACTGGAGATGTTACTATTCAAACACAGATGCAGTCATTTATG
TAGTAGACAGTTGTGACCGAGACCGAATTGGCATTTCCAAATCAGAGTTAGTTGCCATGTTGGAGGAAGAAGAGC
TGAGAAAAGCCATTTTAGTGGTGTGTTGCAAATAAACAGGACATGGAACAGGCCATGACTTCCTCAGAGATGGCAA
ATTCACTTGGGTTACCTGCCTTGAAGGACCGAAAAATGGCAGATATTCAAAACGTCAGCAACCAAAGGCACCGGCC
TTGATGAGGCAATGGAATGGTTAGTTGAAACATTAAAAAGCAGACAGTAATTTCAGTCCATTCTTCTCCCTGAAA
TGAAGACTACATCACCTCTCTCCCTTTGGAAACAGTCAAGTGTACTTCACACTACTAGATGTTAAACTATATGA
TTATTGGCATATACTGACTGACTGCAATATTTGTAGTAAATAGGGAAAATAAGTATTTAGTTGGAGGGATAATTT
GATCGAATCACCTGAATGTTCTATGTAATGTAAATATTCTTTCTTGCTTTCTTGTGTTAAGGTATATATTCTA
TTTGTAATGGAATCTTATTCAAATACAGTTGTATTAAAGAGTATACTCCTATTGGATGAAAAAACCT

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FIGURE 2256

MGGFFSSIFSSLFGTREMRLILGLDGAGKTTILYRLQVGEVTTIPTIGFNVETVITYKNLKFQVWDLGGQTSIR
PYWRCYYSNTDAVIYVVDSCDRDRIGISKSELVAMLEEEELRKAILVVFANKQDMEQAMTSSEMANSGLPALKD
RKWQIFKTSATKGTGLDEAMEWLVELKSRQ

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FIGURE 2257

GGGGACTCAAGGCTGGCCTGGCTCAAGTGAACAGCACGTCCAGGAGGCGACCTCGTCCGCGGGTTTGATTCTGG
GGTGGACGAGCTGGGGGTTTCGGTCCGAGCCCGGTGGGAGGCTCCCGAGCGCAGCCTGGGCCAGCCACCCCGC
GCCGGCGGCCATGGCAGGCACCCTGGACCTGGACAAGGGCTGCACGGTGGAGGAGCTGCTCCGCGGGTGCATCGA
AGCCTTCGATGACTCCGGGAAGGTGCGGGACCCGCAGCTGGTGCGCATGTTCTCATGATGCACCCCTGGTACAT
CCCCCTCTCTCAGCTGGCGGCCAAGCTGCTCCACATCTACCAACAATCCCGGAAGGACAACCTCAATTCCCTGCA
GGTGAAAACGTGCCACCTGGTCAGGTACTGGATCTCCGCCCTCCAGCGGAGTTTGAACCCGGAGTTGGC
TGAGCAGATCAAGGAGCTGAAGGCTCTGCTAGACCAAGAAGGGAACCGACGGCACAGCAGCCTAATCGACATAGA
CAGCGTCCCTACCTACAAGTGAAGCGGCAGGTGACTCAGCGGAACCCTGTGGGACAGAAAAAGCGCAAGATGTC
CCTGTTGTTTTGACCACCTGGAGCCCATGGAGCTGGCGGAGCATCTCACCTACTTGGAGTATCGCTCCTTCTGCAA
GATCCTGTTTTAGGACTATCACAGTTTTCTGACTCATGGCTGCACTGTGGACAACCCCGTCTGGAGCGGTTTCAT
CTCCCTCTTCAACAGCGTCTCACAGTGGGTGCAGCTCATGATCCTCAGCAAACCCACAGCCCCGAGCGGGCCCT
GGTCATCACACACTTTGTCCACGTGGCGGAGAAGCTGCTACAGCTGCAGAACTTCAACACGCTGATGGCAGTGGT
CGGGGGCCTGAGCCACAGCTCCATCTCCCGCCTCAAGGAGACCCACAGCCACGTTAGCCCTGAGACCATCAAGCT
CTGGGAGGGTCTCACGGAAGTAGTGACGGCGACAGGCAACTATGGCAACTACCGGCGTGGCTGGCAGCCTGTGT
GGGCTTCCGCTTCCCGATCCTGGGTGTGCACCTCAAGGACCTGGTGGCCCTGCAGCTGGCACTGCCTGACTGGCT
GGACCCAGCCCGGACCCGGCTCAACGGGGCCAAGATGAAGCAGCTCTTTAGCATCCTGGAGGAGCTGGCCATGGT
GACCAGCCTGCGGCCACCACTACAGGCCAACCCCGACCTGCTGAGCCTGCTCACGGTGTCTCTGGATCAGTATCA
GACGGAGGATGAGCTGTACCAGCTGTCCCTGCAGCGGGAGCCGCGCTCCAAGTCTTCGCCAACCCAGCCCCACGAG
TTGACCCCAACCCCGCCCCCGGTATTGGAGGAGTGGACCTCGGCTGCCAAACCAAGCTGGATCAGGCCCT
CGTGGTGGAGCACATCGAGAAGATGGTGGAGTCTGTGTTCCGGAACCTTGACGTCGATGGGGATGGCCACATCTC
ACAGGAAGAATTCCAGATCATCCGTGGGAACCTCCCTTACCTCAGCGCCTTTGGGGACCTCGACCAGAACCAGGA
TGGCTGCATCAGCAGGGAGGAGATGGTTTTCTATTCTGCGCTCCAGCTCTGTGTTGGGGGGGCGCATGGGCTT
CGTACACAACCTTCCAGGAGAGCAACTCCTTGCGCCCCGTGCGCTGCCGCCACTGCAAAGCCCTGATCCTGGGCAT
CTACAAGCAGGGCCTCAAATGCCGAGCCTGTGGAGTGAAGTGCACACAAGCAGTGAAGGATCGCCTGTCAAGTTGA
GTGTGGCGCAGGGCCAGAGTGTGAGCCTGGAGGGGTCTGCACCCTCACCTCACCCATGCACAGCCACCATCA
CCGCGCCTTCAGCTTCTCTGCCCCGCCCTGGCAGGCGAGGCTCCAGGCCTCCAGAGATCCGTGAGGAGGAGGT
ACAGACGGTGGAGGATGGGGTGTGACATCCACTGTTAATAGATGCTGTGGTTGGATCAAGGACTCATTCCTGC
CTTGAGAAAAATACTTCAACCAGAGCAGGGAGCCTGGGGGTGTGGGGCAGGAGGCTGGGGATGGGGGTGGGATA
TGAGGGTGGCATGCAGCTGAGGGCAGGGCCAGGGCTGGTGTCCCTAAGGTTGTACAGACTCTTGTGAATATTTGT
ATTTTCCAGATGGAATAAAAAGGCCCGTGAATTAACCTTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2258

MAGTLDLDKGCTVEELLRGCI EAFDDSGKVRDPQLVRMFLMMHPWYIPSSQLAAKLLHIYQQRKDNSNSLQVKT
CHLVRYWISAFPAEFDLNP ELAEQIKELKALLDQEGNRRHSSLIDIDSVP TYKWK RQVTQRNPVGQKKRKMSLLF
DHLEPMELAEHLTYLEYRSFCKILFQDYHSFVTHGCTVDNPVLERFISLFNSVSQWVQLMILSKPTAPQRALVIT
HFVHVAEKLLQLQNFNTLMAVVGGLSHSSISRLKETHSHVSPETIKLWEGLTELVTATGNYGNYRRRLAACVGFR
FPILGVHLKDLVALQLALPDWLDPARTRLNGAKMKQLFSILEELAMVTSLRPPVQANPDLLSLLTVSLDQYQTED
ELYQLSLQREPRSKSSPTSPTSCTPPPRPPVLEEWTSAAKPKLDQALVVEHIEKMVESVFRNFDVDGDGHISQEE
FQIIRGNFPYLSAFGLDQNDG CISR EEMVSYFLRSSSVLGGRMGFVHNFQESNSLRPVACRHCKALILGIYKQ
GLKCRACGVNCHKQCKDRLSVECRRRAQSVSLEGSAPSPSPMHSHHHRAFSFSLPRPGRRGSRPPEIREEEVQTV
EDGVFDIHL

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FIGURE 2259

CGGCGCCGAGTAGCCGGGCCGGGCCGGAGCGGGCGGGCGGAGGCAGCTGCGCCCGGCTCCTCCCCCTCCCAGG
CCCCGCCCCCGCCCCGGGCCCGGGCGATGGTGACACATGCGGCGGCGGCGCGCGGCAGGACC**ATG**GTGAGCGC
GCCAGCAAGTTCGTGCTGGTGGTGGCGGGCTCGGTGTGCTTCATGCTCATCTTGTACCACTACGCGGGCCAGGA
CTGAGCCTGGGCGCGCCCCGGCGCGCGCGCCCGACGACCTGTACCTGTTCCCCACGCCCCACCCCCACTAC
GAGAAGAAGTACTACTTCCCGTCCGCGAGCTGGAGCGCTCGCTGCGCTTCGACATGAAGGGCGACGACGTGATC
GTCTTCCTGCACATCCAGAAGACGGGCGGCACCACTTCGGCCGCCACCTCGTGCAAGCTACGCCTCGAGGTG
CCGTGCGACTGCGGCGCCGGCCAGAAGAAGTGACCTGTACCGGCCCAACCGCCGCGAGACTTGGCTCTTCTCC
CGCTTCTCCACCGCTGGAGCTGCGGGCTGCACGCCGACTGGACCGAGCTCACCAACTGCGTGCCCGCGTGCTG
GACCGCCGCGACTCCGCCGCGCTGCGCACGCCCCAGGAAGTTCTACTACATCACCTGTACGAGACCCCGTGTC
CGCTACCTGAGCGAGTGGCGGCATGTGCAGAGGGGTGCCACGTGGAAGACGTCTTTGCATATGTGTGATGGGCGC
ACGCCCCAGCCTGAGGAGCTGCCGCCCTGCTACGAGGGCACGGACTGGTCGGGCTGCACGCTACAGGAGTTTATG
GACTCCCCGTACAACCTGGCCAACAACCGCCAGGTGCGCATGCTGGCCGACCTGAGCCTGGTGGGCTGTACAAC
CTGTCTTTCATCCCCGAGGGCAAGCGGGCCAGCTGCTGCTCGAGAGCGCCAAGAAGAACCTGCGGGGCATGGCC
TTCTTCGGCCTGACCGAGTTCCAGCGCAAGACGCAGTACCTGTTTCGAGCGGACGTTCAACCTCAAGTTCATCCGG
CCCTTCATGCAGTACAATAGCACGCGGGCGGGCGCGCTGGAGGTGGATGAAGACACCATCCGGCGCATCGAGGAG
CTCAACGACCTGGACATGCAGCTGTACGACTACGCCAAGGACCTCTTCCAGCAGCGCTACCAGTACAAGCGGCAG
CTGGAGCGCAGGGAGCAGCGCCTGAGGAGCCGCGAGGAGCGTCTGCTGCACCGGGCCAAGGAGGCACTGCCGCGG
GAGGATGCCGACGAGCCGGGCCGCGTGGCCACCGAGGACTACATGAGCCACATCATTGAGAAGTGG**TAGT**GGCGG
TGGTGGCCACGGGAGGCCTCTTGGGGGTGTGGGGGATAAAACAGGACAGACGACAGGTCCACCCAAGACTGTC
AAGGGATGAGCATCCCAAACCTGCTCCACAGAGGTAGCTGCGTCTGAAAAAAACAGAGCAGGGATGTAGTGGG
GCTGGGCAGGGATGGGGGCTTGAGAAATCAACAGGTGCAGCCAGTGGGTGAGAGGAAAGCGTGTCTGAAGGATG
CCATGCTCAGGGCAGGGCCTCCAGAGCAGGTGTTGTGCCTGGAGCTGCTCTCCTGGCCTCCTTGATTATCGCA
AAAAGTGAAGTTTGGCGAAGAGACGAGGACAGCGGAAAGTGGACCTGCCAGGCCGGGAGTGTGTCCCTCACCAA
CTATGCACACAGCACTCGCTCTTAACCTCTGTCCGGGCTACTAGGAGTGAGACCAGCTTCTGGCAACTGCCCC
AGCTCCAGGCCATCCCATAGCCCCTCCTCTTCTGGCTGCCCCCAATGCCCGAGGCCTGGGGAGCCCCCAGCTCA
CCCATCTGTAGCTCCCTCAAAGTCAGGGCCCCACCCCATCTGAGGCAGAGAAGACTCGAGTCCAGCCCCCAGGAAG
CCTGCTCCCCCTCTGCCCCATGGTCTGCTTCATGCTTTGGGTGAGGAGGCCAAAGCTGATGTTAGGCCCCAC
CCACTCCCTACAGTCTCAGACCCCG

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FIGURE 2260

MVERASKFVLVVAGSVCFMLILYQYAGPGLSLGAPGGRAPPDDLYLFPTDPHYEKKYYFFVRELESLRFDMSG
DDVIVFLHIQKTGGTTFGRHLVQNRLEVPCDCRPGQKKCTCYRPNRRETWLF SRFSTGWSCGLHADWTELTNCV
PGVLDRRDSAAALRTPRKFFYYITLLRDPVSRYLSEWRHVQRGATWKTSLHMGDGRTPPTPEELPPCYEGTDWSGCTL
QEFMDCPYNLANNRQVRMLADLSLVGCYNLSFIPEGKRAQLLLES AKKNLRGMAFFGLTEFQRKTQYLFERTFNL
KFIRPFMQYNSTRAGGVEVDEDTIRRIEELNDLDMQLYDYAKDLFQQRYQYKRQLERREQRLRSREERLLHRAKE
ALPREDADEPGRVPTEDYMSHIIEKW

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FIGURE 2261

CTGTGCGCTGCTGAGCTGAGCTGGGGCGCGGCCGCTGTCTGCACCGGCAGCACCATGTCGCTCATGGTCATCAG
CATGGCGTGTGTTGGGTTCTTCTTGCTGCAGGGGGCCTGGACACATGAGGGTGGTCAGGACAAGCCCTTGCTGTC
TGCCTGGCCCAGCGCTGTGGTGCCTCGAGGAGGACATGTGACTCTTCTGTGTCGCTCTCGTCTTGGGTTTACCAT
CTTCAGTCTGTACAAAGAAGATGGGGTGCCTGTCCCTGAGCTCTACAACAAAATATTCTGGAAGAGCATCCTCAT
GGGCCCTGTGACCCCTGCACACGCAGGGACCTACAGATGTGCGGGTTCACACCCACGCTCCCCATTGAGTGGTC
AGCACCCAGCAACCCCTGGTGATCGTGGTCACAGGTCTATTTGGGAAACCTTCACTCTCAGCCCAGCCGGGCCC
CACGGTTCGCACAGGAGAGAACGTGACCTTGTCTGCAGCTCCAGGAGCTCATTTGACATGTACCATCTATCCAG
GGAGGGGAGGGCCCATGAACCTAGGCTCCCTGCAGTGGCCAGCGTCAATGGAACATTCCAGGCTGACTTTCCTCT
GGGCCCTGCCACCCACGGAGGGACCTACACATGCTTCGGCTCTCTCCATGACTCACCCATGAGTGGTCAGACCC
GAGTGACCCACTGCTTGTCTGTACAGGAACTCTTCAAGTAGTTCATCTTCACCCACTGAACCAAGCTCCAA
AACTGGTATCCGCAGACACCTGCACATTCTGATTGGGACCTCAGTGGCTATCATCCTCTTCATCATCCTCTTCTT
CTTCTCTCTCATTGCTGCTGCTCCAACAAAAGAATGCTGCTGTAATGGACCAAGAGCCTGCCGGGGACAGAAC
AGTGAACAGGGAGGACTCTGATGATCAAGACCCTCAGGAGGTGACATATGCACAGTTGGATCACTGCGTTTTTCAC
ACAGACAAAATCACTTCCCCTTCTCAGAGGCCCAAGACACCTCCAACAGATAACCACCATGTACATGGAACCTCC
AAATGCTAAGCCAAGATCATTGTCTCCTGCCATAAGCACACAGTCAGGCCCTTGAGGGGATCTTCTAGGGAGAC
AACAGCCCTGTCTCAAAACCGGGTTGCTAGCTCCCATGTACCAGCAGCTGGAATCTGAAGGCATCAGTCTTCATC
TTAGGGGATCGCTCTTCCTCACACCACAAATCTGAACATGCCTCTCTCTTGCTTACAAATGTCTAAGGTCCCCAC
TGCCTGCTGGAGAGAAGACACACTCCTTTGCTTAGCCACAAATCTCTATTTCATTGACCCCTGCCACCTCTC
CAACTGAAGTGGCTTACTTCTAGTCTACTTGAGGCTGCAATCACACTGAGGAACTACAATTCCAGACATACAA
GAGGCTCCCTCTTAACATGGCACTGAGACACGTGCTGTTCCACCTTCCCTCATGCTGTTTCACCTTTCCTCAGAC
TATTTCCAGCCCTCTGTCAGTCAGCAGTGAAACTTATAAAATTTTTTGTGATTCAATGTAGCTGTCTCTTTT
CAAATAAACATGTCTGCCCTC

2489/2682
FIGURE 2262

MSLMVISMACVGFFLLQGAWTHEGGQDKPLLSAWPSAVVPRGGHVTLLCRSRLGFTIFSLYKEDGVPVPELYNKI
FWKSILMGPVTPAHAGTYRCRGSHPRSPIEWSAPSNPLVIVVTGLFGKPSLSAQPGPTVRTGENVTLSCSSRSSF
DMYHLSREGRAHEPRLPAVPSVNGTFQADFPLGPATHGGTYTCFGSLHDSPEWSDPSDLLVSVTGNSSSSSSS
PTEPSSKTGIRRHILIGTSVAIILFIIILFFLLHCCCSNKKNAAVMDQEPAGDRTVNREDSDDQDPQEVTYAQ
LDHCVFTQTKITSQRSRKPPTDITMYMELPNAKPRSLSPAHKHHSQALRGSSRETTALSQNRVASSHVPAAGI

2490/2682
FIGURE 2263

TTTTTTTTGCTTTTTGCAGATTGAAATTTAATTAAGCTATTAACCTCTTAATCATCACATCCTCCAACCTCTGTT
TTAACTCCCCCTCCCCCTCCCCTTTTTTTTTAAGGAATAAAGGGATTTCATTCCTCATTTTAACTGATGTTACAG
TGAAGATGGGTCTTGAACCTTGGGAAGCCTGGATGAGCCACCTAATCTCAAAGATAAAAAACCAAGACCAATGC
GTATTGGGGAAAAGAATGCTTAGTACTGCAAGACTGTTGAATACCTGTTGAATATTCTATTGAGGTTTTTTCCT
AAACATACTTCAGTAACATCTTACCGGACAATTGCACTGGAGAAATGTTGATCCCTGGCTGGAATGTCATACCAT
TGACCCATTTGAAGAGTTAAAGCTGGATTGACTGCTCTATTCTACCAGGAATATTGTTAGGGTAGCCTTTTCCA
GTTTCTAAACAATTGTAATCATTATGACTCAGCAATTCCTCAGATAACAGGTCAAAGATGTACAGATACATT
CTGAAGTTTTCTTCTATTAAAGGCACAAGAGTTTCTTGTATTTTGACTGACAATGTAGCATGTTTCCATTAG
TTGTTAGTGAGGTGGTTTTCCCTTTGAAAGCCATTTGGTATATTACCATAACAATTAGTTTAATATGATTACA
TAAGAAAATAATGATAAAACCCAGCAATTTAGTAGTTGTGAAAATACGTTTTTAAATCATGTTTAAGAAGAAT
TGCAAGACTTGAAACCAATCCTGATGGGGGAATTCGTTTAAATCCTGTTTAAATCTGTTTAAATTTCTGTTTAAATC
CTTAGTTTCTTAACTGCATAGCTTATCCTGTATTGTACTTTTTTCTTTTTTAACTCCCAACAAGAAGCTTG
AAACTTTTTCTGTATTTTAAATTTGAAATTTGGTCACAGGGTATAGTCAGATTTTTTAAAGGTTTGGTTTGACA
ACCTTTAAAGAAAGGTTTACCTCGCTAATACTTCTTAATAACATGCATCAAATGATATTCCCTATGGTGAAGTAT
ATCTCAAAGTTATGTATCTTTCAATTTTTGGCATTGGTGCTTATGGAAGTTAGTACCCAGGCAACAAGATCTATT
ATCACCCTACTCTCTGTATTGCTATTATTTCCCAAAAAAAAAAAGGGGCATATATCATAAGAATAATATTAGA
ATTATTTGTTTTCTCCACAAGCCCATGGTAGAGATTCTATGTTCCCTTCTCCCTTTCACTCAGAGTTATGTT
GACTGGGGGCGGTGGCTCATTGGGAAGCCAAGGCGGGTGAATCACTTGAGGTGAGGAGTTCAAGACCAGCTAGC
CAATCAGGCGAAACTCCGTCTCTACTAAAAATATAAAATTAGTCCCGTCTCTACTAAAAATATAAAATTAGT
CAGACGTGGTACCTGTTTGGTGGTGTGCATCTGCTAGTCCCACTACTCGGGACGCTGAGGCAGGTGAATTGCAT
GATCCAGGAGGCAGAGGCTGCAATGAGCTGAGATCATGCCACTGCACTCCAGCCTGGGTGACAAGTGAGACTGTC
TCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGGGTCTTACTTGCAATTAATGCATCCACATTATTCCAT
GTACTCACCAGGATTTTTTGTATAACAAAAATACCCACTCTGGTTACTTATTAAGATTATCAGTCAATTTA
CAAAAACAACAGGAAGATTACAAAGAAAAAAAAAACAAGGAAGCAAGAATCCAGAACTCACAGCACAGAAT
ACTGTGCTTAAATGCTGCTGCAAGGAGTATTAATTAACCTTATACCCTACTGTGACACTTAACAGGCCAGGTGTG
GTGGCTCACGCTGTATCCCAGCACTTTGGGCTGAAGGCGGAGTACACTTGAACCCAGGACAGCCTGGGCAACAT
GGTGAGACCCCGTGTCTACAAAAATAAAAAAGCCGGGAGTGGTGGCAAGCTCCTATAGTTCCAGCTACTTGGGA
GACTGAGGTGGAGGGATCACTTCAGCCTGGGAGGTCAAGGTGACAGTGAGCTATAATCAAGCCACCGCACTCTGG
CCTGGGCAACAGAGACAGTCTCAAAAAGAAAAAAAAAAGCACTTAACACACTTTATGAATACAATATGGCACA
TCTATCTGCCCATTAGAGTGAGACTCCTGAGTATTTACTCATCTTCCATTCTCAAATGCAAAGAGTATGTGGC
ATATAATAACTGTCCGAATGTACGACTGACATCTAAAGCGTGTGCGTGGCAAACCTTTTTCGTAAAGGCCAGG
TAAGTAAACATTATAAGCTTTGTAATCCACACAGTCTCTGTTCAAACCATTTCTACTGTTGTAGCAGGAAAGCAGC
CATGGATAATATGTAAACAAGTCAGCTACGATGTGTTCAAATAAACTTTATAAAAACAGGCAGTAGGCTGGGTT
TAGCCCATGGACCACAATTTGCCAAGTATTTAACAAGAATCAACACTTTTCTTTTCAATTTAATTGAAGTTGG
TACCTACAAAGATATGAGCTCACTACTACATATGACTATCTGTAATGGATCAATTTTGGATATGACTTTGGGTGG
GGGTAAAAAAGAACCGAAGACATGTAATATAGATGAATAATGAAAATAACAGGGCTGGGTGCAGTTGCCTGCAC
TTTAGGAGGCTGAGGCAGGAGCATCTCTGGAACCTGGGAGGCAGAGGTTGCAGTGAGCCAAGATTGCGCCATTGC
ACTCCAGCCAAGGGGACAAGAGCAAAAACAAAAACAAAAACCTTTAAGGTACCAGCCTGGCTAAGCAGT
TAACATACCTCACTTTATCAG

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FIGURE 2264

MGEFCLILFNLNFCLILSFLTCIAYPVLYFFSFLNSQTRSLKFLYFKIEIWSQGIVRFLRFGLTTFKERFTS
LILLNNMHQMIFPMVKYISKLCIFHFWHLVMDLVPRQORSIITYSLVFAIISQKKKRGYHKNNIRIILFLPQA
HGRDFYVPILPFTQSYVDWGRWLIWEAKAGESLEVRSSRPASQSRNSVSTKNIKISPVSTKNIKISQWYLFGG
VHLLVPTTRDAEAGELHDPGGRCNELRSCHCTPAWVTSETVSKKKKKKKKKTRVLTCLINASTLFHVLTRIFCY
KQKYPLWLLIKRLSVNLQKQEDLQRKKKQRKQHEPETAQNTVLKMLLQGVLINLYPTVTLNRPGVVAHACIPA
LWAEGGVHLNPGQPGQHGETPCLQKIKKPGVVASSYSSSYLGD

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FIGURE 2265

GCGGCCGCGTCGACTGTGACACTGCCAGCAGCGCGCAGAGGGAGGGATGGGGGCGGGTATCGGCGTAGGGGCCCT
CGGAAAGAACGGATATTGCTGTGACACCGCGGGGACGCTCTGAAGGGACGAGTGTGGTGTGGCACC GGTCACG
CTGAAGGAGCCGCGGAACCGGGTGGCCATGGGGATGTGGGCATCGCTGGACGCTTTGTGGGAGATGCCGGCCAA
GAAGCGTATCTTCGGGGCCGTCGTCTCTTTTCTGGACAGTGTATCTTTGGGAGACCTTCTAGCACAGCGGCA
GAGAAGGATATATAAAACAACAACCTCATGTACCACCGGAGTTAGGACAGATCATGGATTCTGAAACATTTGAGAA
ATCTCGACTCTATCAACTGGATAAAAGCACTTTTCTGCTTCTGGTCTAGGACTCTATTTCAGAGACTGAAGGCACTCT
TATTCTTCTCTTTGGAGGAATACCTTATCTCTGGAGACTTTTCTGGACGGTTCTGTGGTTATGCTGGCTTTGGACC
AGAAATGAGATCACTCAGTCCCTGGTGTCTTCTGCTGTTGGCTACACTTTTCTAGTGCATTGACTGGTTTGCCATG
GAGTCTTTATAATCTTTTGTGATAGAAGAAAAACATGGCTTCAATCAACAGACTTTGGGGTCTTTCATGAAAGA
TGCAATCAAGAAATTTGTTGTGACTCAGTGTATTTTGTGCTGTGTCTTCACTTCTACTTTACATTATTTAAAT
TGGGGGTGACTATTTTTTTATTTTATGCTGGCTGTTTACATTAGTTGTGTCTCTGGTTCTTGTCACAATCTATGC
TGATTATATTGCCCTTTTATTTGACAAATTCACACCTCTGCCTGAGGGAAAGCTTAAAGAAGAAATGAAGTAAT
GGCAAAGAGTATTGACTTTCTTTGACGAAGGTGTATGTTGTGGAAGGATCTAAACGCTCTTCCCACAGCAATGC
TTATTTTATGGCTTCTTCAAGAACAAGCGAATAGTTTTGTTTGACACTCTACTAGAAGAGTACTCTGTACTAAA
CAAAGACATCCAGGAGGATTCTGGCATGGAACCCCGCAATGAGGAAGAAGGGAACAGTGAAGAAATAAAGCTAA
AGTTAAAAATAAGAAACAAGGATGTAAAAATGAGGAGGTACTCGCTGTACTAGGCCATGAAGTGGGGCACTGGAA
GTTGGGACATACAGTCAAAAAATATCATTATTAGCCAGATGAATCTTTCTGTGTTTTTTTTTATTGCTGTATT
AATTGGTCGAAAGGAGCTTTTGTGCTGCTTTGGTTTTTATGATAGCCAACCCACTCTTATTGGACTATTGATCAT
CTTCCAGTTTATTTTTTACCTTACAAATGAGGTTCTTTCTTTTGCCTAACAGTCTTAAGCCGCAGATTTGAGTT
TCAAGCTGATGCATTTGCCAAGAACTTGGGAAGGCTAAAGACTTATATTCTGCTTTAATCAAACCTTAACAAAGA
TAAGTTGGGATTCCCTGTTTCTGACTGGTTGTTCTCAATGTGGCATTATTCTCATCCTCCACTGCTAGAGAGACT
TCAAGCTTTGAAACTATGAAGCAACACTGAGATGTCCAGGATCTGTGACTGAAGACATTTCTGATTATTTCTGT
CCTGGCAGCATGTTCCAGCTCTTGATGTTTTTAACTTTTTTGAAGAAAAATTAAGTACAGAAAAGCCCAGAT
TTAAATACATTTAATATGTCAATTTTAAAAATGATTTTAAATAATTCATTTCTTAAACACTGAATGAATTTTGAAG
CTTAATGTTTTTAAAGGCATAGTTTTATCTTTGACATCTAATTTACCATCAAGTTGTAAAATTTTGGAAAAAT
ACAGAATCGTTTTATTTGTATACTTATAIGGAATCTGCATGTGAGGTGTTTGGGGCATATGTTTGAAGAGGG
AGCATCACCAAGGAATCCTTTCTGTGAGGTGGAACAGTGGTCTGAATCATTGTGCTCACACCTAACTTGAAA
TCTGGTCTTACTTTTCATGCTGTTATGATTTTACCTGGTGAATCAGTGTTTTAAATAAGAAAGGTAATAGTTGGTA
AGGCCAATGTTATTTAAATGAAAGTAGTTAGAAAAATGCTCTCCTATTTACCAAATTTTTAATTTCTTTCTTCC
CTTTCTTGCTACACAGTGTCAAGAGTTTCTCATAGTGCTTTGAAGTAGAAATTATGTATAGGATATTTTAAAT
CATTGAGTTTTTGGGGTTTTTTTTGTTTGTGTTTCTTTTGTGTTTTTGGAAAATCCGTGTCTTTATCTTTTTTT
CCCACGTGGTAGATATGATCCCATTTGGAGGTAAATGTAGCTTCTTCTCATTATGCAGTAATAATACATCCTT
TCACTCAGCAGAGATGGCCATATTAAACACGTTTTGCTATGTTAAAAGTGGCAGAACAGGAAAGACGAATTAATA
ATAACATTTTTTAAAGGCACATAAGGATGAAATACTGATGAATCTCTGTGACATTACAGGGAAAAAATATAGTTT
TCTATCTCTTTCAAGGGCAGAAAGAGTTTTTCAATTTTATTTTGTAAATTTATCTGTAAGTCATAAATATTACTTAA
TCAGGCCTGATTCTACTTTTGAATTTACAGTCTTGAATGCAGATAATGTTTACTTTGAAAACAAATGTCATG
AATGATTTCCAGTTTTTAAAGCTATATGTTTCACTGCTTCATATCTCTGTCCACTTTCTGAATGAGAACTTATTT
TGTGCTAGAGCTCTCACTCACTGATAATGCTTATTACCTTCTGGGCATTTATTCCAAAGTGGGATCACTGTAC
GCCTTTGGTATCTGACCATAAAGTCTTTTGTCCGCTGACATTTGGGTGATGTCTTCACATGGAATATAATAAA
AATAAAATCTAGTTTAAAAA

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FIGURE 2266

MGMWASLDALWEMPAKKRIFGAVLLFSWTVYLWETFLAQRQRRIYKTTTHVPPELGQIMDSETFEKSRLYQLDKS
TFSFWSGLYSETEGTLILLFGGIPYLWRLSGRFGYAGFGPEYEITQSLVFLLLATLFSALTGLPWSLYNTFVIE
EKHGFNQQTILGFFMKDAIKKFVVTQCILLPVSSLLLYIIKIGGDYFFIYAWLFTLVVSLVLVTIYADYIAPLFDK
FTPLPECKLKEEIEVMAKSIDFPLTKVYVVEGSKRSSHSNAYFYGFFKNKRIVLFDTLLEEYSVLNKDIQEDSGM
EPRNEEGNSEEIKAKVKNKKQGCKNEEVLAVLGHELGHWKLGHTVKNIIISQMNSFLCFFLFAVLIGRKELFAA
FGFYDSQPTLIGLLIIFQFIFSPYNEVLSFCLTVLSRRFEFQADAFAKKLGKAKDLYSALIKLNKDNLGFPVSDW
LFSMWHYSHPPLLERLQALKTMKQH

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FIGURE 2267A

AGCGCAATGGAGCCAGAGGAGGAGGATGAAGTAGGCTCAGGGCGGGATGTGGATTCCAACCCAACGCGGACAGTG
AGAAATGGGTGGCAGGAGATGGTTTTGAAGAACAGGAATTTTCTATCAAGGAGGCAAACCTTCAGAGGGGAAGTC
TGAAGCTAAAGATTAGACCACAAAGCGGGCTAAGAAACCCCCAAAGAATTTGGAGAACTATATATGTCCACCTG
AGATCAAGATCACCATCAAGCAGTCTGGGGACCAGAAGGTGTCCCGTGTGGAAAAATAGCAAAGCCACGAAGG
AGGAAGAAAGAAGCCACTCCAAAAAGAGCTCCTCAGCCAGTGACCTTGACGCCAGTGACCTCAAAGGATTTTC
AGCCACAGGCTTACGAAAGGCCCCAGAAACATTCAACTCTCCATTATGACACGGGCCTCCACAGGACTTCACCG
GTGACACCTTAAACCAAAGCACCAGCAAAAAAGCAGCAGCCAGAACCACATGGACTGGTCCACCAACTCTGACA
GCGGACCCGTCACTCAGAATTGCTTCATCAGTCCAGAGTCTGGCAGAGAACTGCAAGCACCAGCAAGATCCCCG
CTCTTGAGCCCGTGGCTTCCTTTGCAAAGGCCAGGGTAAGAAAGGCAGTGACGGGAACACGTGGAGTCAGTTGT
CTAACAAATAACAAAGATCTGCTCTTGGGAGGTGTGGCTCCATCCCCAAGCAGCCACAGCTCACCAGCCCCACCCA
GCAGCTCTGCTGAGTGCAACGGGCTTCAGCCCTTGGTGGATCAAGATGGAGGAGGTACAAAGGAGCCCCCAGAAC
CACCTACGGTGGGCAGCAAGAAAAAGTCCAGTAAAAAGATGTGATAAGTCAGACCATAACAAACCCAGACCTGG
ATTGGGTCAAGAATGCCAGAAAGCATTGACAATACAGAAGGGAAAAAGGGAAGGTTATTCCGCAGATAGTGCCC
AAGAGGCATCACCAGCCAGCAGAACGTGAGTTCTGCCAGTAATCCTGAAAATGACTCAAGTCATGTCCGGATTA
CTATCCCCATCAAGGCACCTCTCTGGATCCAACCAACCATAAGAGGAAAAAAGACAGTCCATTAAAGCGGTGG
TGGAAAAGATCATGCCAGAGAAAGCCTTGGCTCTGGAATCACCATGAGCAGTGAAGTAGTTAACAGGATACTTT
CCAACCTCTGAGGGGAATAAGAAGGATCCCCGTGTCCCTAAGTTGAGTAAATGATAGAGAAAGAGTCCCCCTCAG
TTGGCCTTGAACTGGTGGAAATGCTGAGAAAGTTATCCCAGGAGGTGTGTCTAAGCCGCGGAAGCCACCCATGG
TCATGACACCTCCAACGTGCACAGATCACTCTCCATCCAGAAAGCTGCCAGAAATCCAGCATCCAAAATTTGCTG
CAAAACGAAGGTGGACTTGACAGCAAAACCAAACTAGCACCATGCTTCGAGAGGCAGTTATGGCCACCTCTGATA
AACTGATGCTGGAGCCCCCGTCTGCATATCCCATCACCCCATCCAGCCCTCTCTACACCAACACAGACAGTCTTA
CTGTGATCACTCCAGTCAAAAGAAGCGGGGACGACCAAGAAGCAGCCTTTGCTCACAGTCGAGACGATTATG
AGGGAACCTCCACCAGCCCCGTGCTAGTCCCATCAGCCGAGAGTTTCTGGCACTAAGAAAAGAAAGCGACGACGCA
ATTTAGCGAAGTTGGCCAGCTAGTGCCGGGAGAGGACAAACCCATGAGCGAGATGAAATTTACAAGAAAGTTG
GAAAGCTCGGCGTGTGGATAAGAAGACCATCAAACTATCAATAAGATGAAGACACTCAAGAGGAAAAACATCT
TGAATCAGATCTTGTCTGTTCAGCAGCGTTGCTCTGAAGGCAAAAGCTCCCCCAGAGACCAGCCCTGGGGCAG
CAGCCATTGAAAGCAAACCTGGGCAAGCAGATTAAATGTCAGCAAGAGGGGAACCATCTACATTGGCAAGAAGCGGG
GCAGGAAGCCAAAGAGCAGAGCTGCCACCCCATCCGAAGAACCCAAAACAGCCATCAAGCACCACAGGCTGTTT
CTAGCCAGCCGGATGTTCCAGCCGTGCCTTCCAACCTTCAGTCACTTGTGGCGTCTTACCAGCAGCTATGCACC
CACTTTCAACACAGTTAGGTGGGTCCAATGGCAACCTGAGCCCTGCCAGCACTGAAACCAATTTTTTCAGAGTTGA
AACTATGCCAAATCTCCAGCCCATCAGTGCTCTTCCAACCAAAACCCAAAAGGGAATACACAGTGGAACTGGA
AGCTGTCTCCACCCAGACTGATGGCCAACTCCCTTTCACACCTGTGCGAGATTGGCTCCCTAAAGGAAATCAGC
TGTCCTCTGTGAGCGAGTCCACAGTGAGGAGACGATCCCCAGCGACAGCGGCATTGGGACAGACAACAACAGCA
CTTCTGACCAAGCGGAGAAGAGCTCAGAATCCCGAAGGAGGTACTCTTTGATTTCTGCTCCCTGGACAACCCGG
AGGCCATTCCGTCCGACACCAGCACAAAGAACCGGCATGGCCACCGGCAAAAGCATCTCATTGTGGACAACCTTC
TGGCCACGAAAGCCTCAAGAAGCCAAAGCACAAGAGGAAACGGAAAAGCCTGCAAAACCGCGATGACCTCCAGT
TTCTGGCAGACCTGGAGGAGCTAATCACCAAGTTCCAAGTGTTTCAAGATCTCCACCGGAGTTACACCTTCTACC
ACGAGAATCCATATCCAGCATTTTTTCGGATTAATTTTGATCACTATTACCCGGTGCCATATATCCAGTATGACC
CGTTGCTCTATCTTCGTAGGACTTCAGACTTGAAGTCAAAGAAGAAGCGTGGTAGGCCTGCAAAAACCAATGACA
CCATGACAAAGGTGCCTTTTTTACAAGGGTTCAGCTACCTATTCCAGTGGAAGTTACTATGCACCTATGGAA
TGCCTTACACATCAATGCCTATGATGAACCTTGGTTATTACGGTCAGTACCCAGCTCCTTTGTACCTATCGCACA
CGCTTGGAGCAGCTTCCCCATTATGAGGCCAACAGTGCCACCACCTCAGTTCCACACAACTCCCACATAAAGA
TGTCCGGTGCAGCTAAGCATAAAGCCAAGCATGGAGTACCTGCAGGGACCTGTTAGCATGGGCCTTGGTGACA
TGCAGCCTTCTCTGAACCTCCCAAGGTAGGCAGTGCCAGTCTGTCCAGTGGTTCGGCTCCATAAGAGGAAACACA
AACACAAGCATAAGCACAAGGAAGACCGATCCTAGGGACCCATGACAACCTGAGTGGTCTTTTTGCAGGCAAG
CCACAGGCTTCTCCAGCCACATCTGAGCGAGCGGCTGAGTAGCGCAGACAAAGAGCTCCCGCTGGTGAGTGAGA
AGAACAAGCATAAGGAGAAACAGAAGCACCAGCACAGCGAAGCCGGCCACAAAGCTTCTAAGAACAACCTTTGAGG
TGGACACCTGTCTACACTGTCACTTTCCGACGCCCAGCATTGGACACAGGCCAAGGAAAAAGGAGACTTGAGCA

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FIGURE 2267B

GTGAGCCTGTGGACTCATGCACGAAAAGATACTCTGGCAGTGGCGGGGATGGTGGCAGCACGAGATCGGAGAACC
TGGACGTGTTTCAGTGAAATGAACCCCTTCGAATGACAAGTGGGACAGTGACGTGAGTGGGAGTAAAAGGAGGAGCT
ATGAAGGCTTTTGGAACTACAGGGAAAAGGACATCCAAGCCTTCAAGATGAACCGCAAGGAGAGAAGTTCTTATG
ACTCCTCCATGTCTCCAGGGATGCCAAGTCCCCACTTAAAAGTGGACCAGACAGCAGTGCATAGTAAGAACGAAG
GCTCAGTGCCCAACCATGATGACCAGGAAGAAGCCAGCCGCGAGTTGACAGTGTACAATTCCACCAGCCCCAGTGT
TATCTCTCCTTGCTGCATCTGCAGCAACGTCGGATGCAGTCGGCTCCTCCCTGAAGAAGAGGTTCAAGCGGCGGG
AGATCGAAGCCATCCAGTGCGAAGTGCAGGAAGATGTGCACTACACCAAGATCCTGTCCACCAAGAAGAACCTGG
ACCACGTGAACAAGATCCTGAAGGCCAAGCGGCTGCAGAGACAATCAAAAACAGGCAACAACCTTCGTGAAGAAGA
GGCGCGGGCGTCCCAGGAAGCAGCCACCCAGTTCGATGAGGACTCCAGAGACCAATGCCGGTGCTGGAAAAAT
GCATCGACCTGCCAGCAAAAAGAGGCCAGAAGCCAGCCTGAGCCCGCTGGTGTGGAGCCCGCCGCCAGCCAAG
ACACCATCATGGCCACCATCGAGGCGGTTCATCCATGCCCCGGGAGGCGCCGCCCTGCCCGGCCACCGCCGC
CGCCCCTGCCGCCACCGCCGCCACACCCCTGCCCGGCCACCCCTCTACCCAAGACCCCCGAGGCGGAAAGA
GGAAACACAAACCGCAGGCCCCCGCTCAGCCCCACAGCAGTCGCCCCCGCAGCAGCCCCCTTCCCCAGGAAGAGG
AGGTGAAAGCCAAAAGGCAGAGGAAGTCCCAGGGAGTGAGAGCGAGGTCCTTCCCTAGGGCGGGTCTGGGCGTC
TGCACCTGGGGCCTAGGGAAGTACACGTGGGAAGCGCAGTGAGCCGGGGCGGGGGCGGAATCCCCCGCTGCAGG
GACACCCACGCCCTTCTCTCCAGAAGCCGGGCAGGCAGAATCCGGCCAGACGACGGGGCTGAGCCATCAGGAGCT
CTTGGGAAAGCAAAGCAGGGAGACACCTTCAGAAGAAGCTTGCTGAGCTTACCCGAGCTCCCACCACGCGGCG
CTTCAGTACGGCTGGATCCTCCGCAGGCGAGCGGAAGGCCCCCAGGAGGAGCAGGCTGGTGGCACTCTCCTGACC
TCACGCTGCCAAGGTGCGCCCTCGACTCCCGATTTCATTTGCTGGCCAGGAAAATCGAAAGGGAAACACCCCTCAA
TTAGGAAACATTCCAAGGGGAGAAAAGCTGCAAATTGCTCAACTGGCATTGCTGTAACCCGTTCCATTTAATTGG
TTTTTATTTCTTTTGATTTTCAAGCTCTGCTAAGCTTTGGGTACCAACGTCATCTTCAGGTGACCTGAATCTTT
CCCTTAACCGTACAGTTTCTCGATGGAATTGTGTGATCAGAAGGTGGAATTCTAGTGATAGGCGACCTCAGACCC
GCATTTCATGTTCTGTGTGCCTCTTCTATTGCACATACACTGATTTTTCAGTATTGTCTATTCTATTTTCTTTG
CCCATTGTACTTCCATATATCTTTTCATTAACCTTACTTGTGCTTTTCTTTTCTTGGTACACATTTAAATAAA
GTAATCCTTAACCTGTGCTGTAAAGTTCACCCCTTGGCATGCTGTTCCAAGAACCTGGGTTTGAATCCCAATCGTT
GTGAAACATACTCAGTATTGATAAAACCTTTTAAATAAGTGATGCAGAGCAGCCAAGGATATGTTGACCCAGATG
TCAACCAGGCTATTTTATACTTAAAACATGTCAGCAGAGCATAGGCAGAATAAAATGGTTTAAATACCCACAG
CAAATAGAGTAACTGACAAACCACCAAAAACCTGAAACCCAGACCCACCAGAAAGACAAGTGTCTAGCAATGCCT
TGGTACCTGATCTTTTTCATTCAAATAATTGTCATAGGTTGTTT

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FIGURE 2268

MEPEEEDELGSGRDVDSNSNADSEKQVAGDGLLEEQEFSEKEANFTEGSLKLKIQTTKRAKKPPKNLENYICPPEI
KIIKQSGDQKVSRAKNSKATKEEERSHSHKKLLTASDLAASDLKGFQQAAYERPQKHSTLHYDTGLPQDFTGD
TLKPKHQKSSSQNHMDWSTNSDGPVTQNCFISPESGREASTSKIPALEPVASFKAQGGKKSAGNTWSQLSN
NNKDLLLGGVAPSPSSHSSPAPPSSSAECNGLQPLVDQDGGGTKEPPEPPTVGSKKKSSKKDVISQITIPNPDLDW
VKNAQKAFDNTTEGKREGYSADSAQEASPARQNVSSASNPENDSSHVRITIPKAPSLDPTNHKRRKRSIKAVVE
KIMPEKALASGITMSSEVVNRILSNSEGNKKDPRVPLSKMIENESPSVGLTGGNAEKVIPGGVSKPRKPPMVM
TPPTCTDHSPSRKLPEIQHPKFAAKRRWTCSPKPTMLREAVMATSDKLMLEPPSAYPITPSSPLYTNTDSLTV
ITPVKKRGRPKKQPLLTIVETIHEGTSTSPVSPISREFPGTKRRRRNLAKLAQLVPGEDKPMSEMFKHKKVGK
LGVLDKKTIKTINKMKTILKRKNILNQILSCSSSVALKAKAPPETSPGAAAIESKLKGQINVSKRGTIYIGKKRGR
KPRAELPPPSEEPKTAIKHRPVSSQPDVPAVPSNFQSLVASSPAAMHPLSTQLGGSNGNLSPASTETNFSSELKT
MPNLQPIALSPTKTQKGIHSGTWKLSPPRLMANSPSHLCEIGSLKEITLSPVSESHSEETIPSDSGIGTDNNSTS
DQAEKSSSESRRRYSFDFCSLDNPEAIPSDTSTKNRHGHRQKHLIVDNFLAHESLKKPKHKRKRKSLQNRDDLQFL
ADLEELITKFQVFRISHRSYTFYHENPYSIFRINFHYYPVPIYQYDPLLYLRRTSDLSKSKKGRPAKTNDTM
TKVPFLQGFSPYIPSGSYYPYGMPTSMPPMNLGYGQYAPPLYLSHTLGAASPFMRPTVPPPQFHTNSHIKMS
GAAKHAKHGVHLQGPVSMGLGDMQPSLNPPKVGSASSLSSGRLHKKRKHKKHKKHKKEDRILGTHDNLSGLFAGKAT
GFSSHILSERLSSADKELPLVSEKNKHKEKQKHQHSEAGHKASKNNFEVDTLSTLSLSDAQHWTQAKEKGDLSSE
PVDSCTKRYSGGGSGGSTRSENLDVFSEMNPSNDKWDSDVSGSKRRSYEGFGTYREKDIQAFKMNRRKERSYDS
SMSPGMPSPHLKVDQTAVHKNESVPTMMTRKKPAAVDSVTIPPAPVLSLLAASAATSDAVGSSSLKKRFRKREI
EAIQCEVRKMCNYTKILSTKKNLDHVNKILKAKRLQRQSKTGNNFVKRRGRPRKQPTQFDEDSRDQMPVLEKCI
DLPSKRGQKPSLSPLVLEPAASQDTIMATIEAVIHMAEAPPLPPPPPPPLPPPPPPPLPPPPPLPKTPRGGKRK
HKPQAPAQPPQSPPPQPLPQEEEVKAKRQRKSRGSESEVLP

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FIGURE 2269

GCCGCTTTTTTTTTTCTCATCTGCCATTTGTGTCTTAGATGGGTTTTAATTGCATGAATGTGGCTAATGTG
GTTCTCAGAAATTGGTCAGTATGGCCCGACATAGCTTCTGCTCTGTCTTGCTGACTCAATACCTTTAGGATTTGT
ATCAGAGTTTGGATACTAGTGTTAGTGGTGGTGTCAACCACTACTTAATTGGGAGATAATGAAACCAATCATGGAT
GCTGTTTTTATTGGGCAITGCATCTAAGAGAGGAGAAATAGCTGGGTTTTGGGTCTAATTATGAATAAGGACTGA
TTCAGAAAACGAGTTTATGGTAGGTAGACTAAAGTTTCACATCAGACTGTACCATTGTGATTTAGACCTATCTAA
AATTCAGAGCATATCATCTGGGCTACCTCAGGGTCACCACCCATGTATTGGGCTTAGTCAGGATTGACAGATACA
TTCTCAGCTGGCCTGTCAATATAAAACATACTGTCATTGAGCTTAAGCTCCGCTTGTTCTGAGGTTTCAECTCCAT
GTGTTTCATTGGTGCAAAAGTGGATCTCTTAGTTGGTCACTTAATTCTTTCTTTTTCAGAAAGATAGTATGTTCA
CTGGTATATTTGGTCACTCTTAGAACCTTCCTTCACATTGTTTTTTATGGGACCCATGAATGGTTAGCCTTTCTT
TTCTATTGTAGAAGGAAATAAATAGGAGTAAAAAGACCATTGTAGTAAATAAGTTCAAGGGGAACCTGGGACCAG
AAACCACTGTTATGTACAAAAAATGGCAAATTCATAAACTCAAATTTAAAAATAATTTTAAATTAACAGTTAT
GATAAATTTTATATTTTATACAAATAGATTGCTTAGAATGGTTCTCAAGAATTATAAGAGAAATGAACCTCACAGT
ACAAAAATTTTATAATTACTATACTTGTGTTTTGTTGGGGGCTGGGAAATGTATTTTACATTGTAGCCAATCA
TTTTATATTTGTCAATTTAAATCTTATGGGTCTTTTTTTTTTATCTCTCTTGATGTCAGATTTTATAGTCTTTT
TAAATAAATCCATTTAATTAAACGTTAAAAAA

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FIGURE 2270

MINFIFYTNRLLRMLKNYKRNELTVQKFYNYITCVLFGGWEMYFYIVANHFIFVNLNLMGLFFFISLDVRFYSL
FK

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FIGURE 2271

GATTTTAGAAGAAAACCCCTTTTGTCAACAATTTTGTGTACATATTTGGCATTTCAGTTCTGTACGCATCTGCGG
GTTGCAGCCCACGCCGCTTACTCTCAGCGGATGCAGCTGCTCACTTGGGGGCACTGGCCTCTTAGGTTTTAACGA
TGTCACAGTGTAGTTTAGAAAATGGCCGTTAGTGGCTCTATTGCAATAATGTTAGGGACATTATATGATTTCC
ACGCAGGTACACCATCTGGGCCTGAGGTAGCAGTGGGTCACTTTGATCCACTTTGCAGGACTTATTCTGTAACG
GTTTGTGGCCAAGTTTTGGGAAGTGGTTGATTCTCTTTGCCCTTCATTTACCTTCCTCTTCGTTTACGGTTAGGA
CATCGCTGCTTGATCCTTACAATACTGTGCAACTGCAATGCAACGTTGGCCCTGCTTCAGGTGATCCGCGGGAGGG
GCCCTCCACGCCAGCGCCGGAAGGCTGCTGGGGCCTCCACACCTGCCTCATCACGGCGGCGAGGCTACGACAATC
CGGCTGGGAGCATGACCTTGGCGTCTGTTCTGGGAGCACGGATGATAAGCTCTGGAAGCTGGCAGTGTGTAAAGC
ACTGGCAAGTTTTGTTACTGTTAAATGTCAAATACCAATGCTTTATATCGACGCGAAGTGCTTAACACAGCCGGG
CTTGGGGGAGTCAGGAGGAAGCTGGCCATCCGTTGGAGGAGGGGCCGGTCTGGACTCCCGCAGGACTCCTCTGA
GGCAGGGCCTGAAGTCTGTACACGTGGTCCAGATTTGCTCTTGTCTTTTCTTCACACTGAGTTCTCTATATTTAT
TGAACATCTTGTCTTTTAAAGCCAGAGTAGTGAAACTGCGTCTCGGATGTCTGTCTTTTGCCTCGAAGCCACGA
TGGATCGCTGGTTTTCTCTGCAGCGCAGGGCTCCGGCGACCAGAGGATTCTTCCCGGAAGGCATTCTGCGCGG
CTCCCCGGGGCACCCCTCAATTGTTACTACGTCCTTGTTTAGTGTGTATCCGTGCCACGTAGATGATGTCTGT
AACGTAGTTTTGTTTGAATATGAGAATATCGGGCTTAACTTTGATCTGTAAGGAGCGGGGCGGTGGCCGTTTG
GAGCACGCTGTAGACACCGTTCTCATGCTGCCGGGTGGGTTTTGCAGAAGCTCCCTTAGTGATTTTCATGTTTAA
CAGGCAGCATCCATTTCCAGAATTTCTGGCATTGATTTATATTTGAAGCATAACAGGAACTTCTCGTTTCTCTC
GTTTAGCCCCACCCAGATCAGGTGAAAGGGCAGCTTTAATGGTGGTTTTTATGGACCACATTATCAGAGAGCACT
GTGCAAGCCAAATGGTTCAATAATGAATGAAAATCTGGGTGTAAAGAGTAAATATGCCCTGGCTCTTTCTACCA
ATGTTTGTCTCTGGTTGGAAGAAACCAAGATTTAAGACGGGCTGCTCTTCCAGACTGGCTGTGCCCTGCCTGTG
CCCAGCAACCTGTGCAGCCGCGCAGTGTGCCTGGTGTACGCCAGGAGGCTGTGGCTGCTGTGGGCCCTCTGGAAT
TGTGCTCCTCACAAAGTTTCCCCAAAAGGTTCTTCTAAGCCTTTATTGTCCCTGGTAAATGTTTCCCGGCTGGGC
GCGGTGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCCGAGGCGGGTGGATCACCTAAGGTGAGGAGTTTGAG
ATCAGCCTGCCCAACATGGTGAAACCTCGTCTCTACTAAAAATACACAACCTAGCCAGTCTTGTGGCGCACGCC
TGTAATCTCAGCTACTAGGGATGCTGAGGCAGGAGAATCGCTTGAACCAAGAAAGAGGTGGAGGTTGCGGTGAG
CCAAGATTGCGCCACTGCACTCCAGCCTGGGCAAACAGAGGGAGACTCCATCGCCCCCCCCAACAAAAAAAAG
TTTCCCATACACTGGCCTGCCCCAAAACCCACTAACAATTTTAGCAAAACAGTCCAGGCCAAAGAGGAAGCATT
CATGTTCAATAAGAAACCCAGCCATTCCGCATGGCTGGTTCTGTAGTGGCTCTGGTGATACTCTCCAGCCACCTG
CTGACATTGAGAATCTCAGACCTCGGGACTGCTGTTGCGGTACCGTGTGTCTGACACCTGCCAGCAGCCCTTTC
TATCTGCGCGCAGGATGGGGGTGACTGCCCAGACATTCCCGCTAGATAGGCTCTGATTCCGGGGCAGCCTTCA
GATGCGGCAGACATAACAACCTGTACTTTAGAGTTTAAAGGAAAAAAATCAGAAGTGTGTTAGTAGTAA
AAACTTAGGATAACTTAGAAAGGCTAGTTTGTGCTTCTTTGTGGCTCCCTGGTGCAAAACAATTAGCAGTTATG
CAATGGACCTGATTCTAGTTTATTCTAATTAAGAAGTGAGGCCGAGTTTGACTTCGTTCTGAATACAATCTGA
GTAAGTGGGAAAGTCTGAGTGAAAGGATGGCCTCATTCTCTTTCTAATCTTGCTGGTTCAAGATTAGAAAATGG
CATTATTTGATCTGAAATGTTTGAGAAGACACGAATAAAGTTACTTGGGCAGAAAAAAA

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FIGURE 2272

MQRGPASGDPREGPPRQRREGCWGLHTCLITAARLRQSGWEHDLGVCSGSTDDKLWKLAVCKALASLLLLKCQIP
MLYIDAKCLTQPGLGAVRRKLAIRGGGAGPGLPQDSSEAGPEVCTRGPDLSLSLHTEFSIFIEHLVLLSQSSVN
CVSDVCLLPRSHDGSLSVSSAARGLRPEDSSRKAFIPRSPGHPSIVYYVLV

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FIGURE 2273

GCCGSCATTCAATTTAAGGCCTAAGGATGAAGGCGAGAAGAAATAAAAAACAGATCCCAAGCTTTCGCAAGTTAAT
AAAAACTAGTAAAGTCAAACCTTGAAAACAAGCTAAAAAATAAGCAGTTTAAACAACAAAGCACTCTCAAGAAGTA
CCGAAAAGAACAGAGGAACTAAGGCAAGCTGTGAAAGATGCTGTGTCTAAGAAACCCATTCCATTGGAGAACCC
AAAGGAAAAGCGACCAGGTAAAAGGATTGAGAGGGAAGAAGAGGAAGAAGAAGCCCTTCCTTTAGATATGAT
GGATGAAGATGACTTACAGTTAATGAAGGATTTAGGACAAAGAGTATCTTTCTAACAAGAGATCTTCTTCTAG
TGAGCCTGTTTCATGCGAAGAAACGGAAGCATGAACGCATTATAGATAAATATGAAAAATACCAAGAAGCTCTGCA
AACTGCACCAGAGAAGGAAGTGAATTTACTTCTATCAAAGATAAAAGTGGTATAATCCACAGACTAGGGA
GAAGCCAGTTACTGATAGTAACAAAGATGAAGAGGATCAAGAAGAAGAGAGGGAAGCTTGAGGAAGAGATCATTGA
AGATCCTATTCAAGAGCTGACCATAGAAGAACATTTGATTGAGAGAAAGAAGAAATTACAGGAGAAGAAGATGCA
TATTGCAGCCTTGGCATCTGCCATATTATCAGATCCAGAAAATAATATTAATAAATTGAAAGAATTACGTTCTAT
GTTGATGGAACAAGATCCTGATGTGGCTGTTACTGTTTCGAAAGCTGGTAATTGTTTCTCTGATGGAGTTATTTAA
AGATATTACTCCTTCATATAAAATCCGGCCCCCTCACAGAAGCAGAAAAATCTACTAAGACCCGAAAAAGAACCCA
GAAGTTAAGAGAATTTGAAGAAGGCCTGGTTAGCCAATACAAGTTTTATTTGGAATACTGGAACAAATGGTTAA
AGATTGGAAGCAGAGGAAGCTGAAGAAAAGTAATGTAGTTTCTTAAAGGCATACAAAGGACTGGCAGAAGTCGC
TGTGAAGAGCTTGTGTGAGCTGTTGGTGGCACTACCTCATTTTAACTTTCACAACAACATCATCGTATTGATTGT
CCCTCTCATGAATGACATGTCAAATTTGATATCTGAAATGTGTGTGAAGCTGTGAAGAACTCTTTAAGCAAGA
TAAATTAGGCCAGGCTTCTCTGGTGTAATTAAGTGATTTCTGGTTTTGTGAAGGGCAGAAATTACGAAGTTAG
GCCAGAGATGTTAAAAACATTTTATGCCTAAGAATCAAGGAAGTAGAAGTGAATAAGATACAGAAGACATTAA
TAAACCAAAAAATTTATGACTTTCAAAGAAAAGAGAAAATCTCTATCAAGAATGCAGAGAAAGTGGAGAAAAGC
AGAAGAGAACTAGAGCGAGAGCTTCGAGAGGCAGAAGCTTCAGAGAGTACTGAGAAAAAACTTAACTGCACAC
AGAGACTCTGAATATTGTGTTTGTAACTACTTCAGAATATTGAAGAAGGCCAGAGGTCACCTCTCCTGCCAGC
AGTTCTAGAAGGTCTTGCCAAGTTTGCTCACCTTATAAATGTGGAATTTTTTGATGATCTGTTAGTAGTTCTTCA
TACTCTCATTGAGTCTGGTGACCTAAGCTATCAAGAAAGTCTTCACTGTGTCCAGACTGCTTTTCATATTCTTTC
TGGACAAGGTGATGTTCTGAATATTGATCCATTGAAATTTACACACATCTCTACAAAACACTGTTCAAATTACA
TGCAGGTGCTACCAATGAAGGTGTTGAGATTGTACTCCAGTGCCTTGATGTCATGCTAACTAAGCGCAGAAAGCA
AGTTTCTCAGCAGCGAGCTCTTGCCCTCATCAAACGCCCTTTGTACCCTTGCTCTTCATGTTCTTCCAAATTCAAG
TATTGGCATTTTAGCAACTACCAGAATATTAATGCATACTTTCCCCAAAACAGATCTACTGCTTGACAGTGAATC
TCAGGGAAGTGGAGTTTTCTTCTGAAGTGGATGAGCCTGAGTACTGCAATGCTCAGAACACTGCTCTGTGGGA
ACTGCATGCTCTGCGGAGGCATTATCATCCCATAGTGCAGAGATTGTCAGCCACCTGATCGCTGGAGCACCTTC
TGAAGGCTCTGGAGCACTCAAACCAGAGTTGAGTGAAGATCTGCTACTGAAGTCTTTTGAGGCATATAGCATGGC
AGAAATGACATTCAATCCTCCTGTTGAATCTTCAAACCCCAAAATAAAGGGTAAATTTTTACAAGGGGATTCAAT
TTTGAATGAAGATTTAAATCAGCTAATCAAAGATACTCCAGTGAAGTTGCTACTGAATCGCCTCTGGATTTCAC
GAAATATTTGAAAACATCACTACACTAGTAGAGGAATGAAGTCAGTGGAC

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FIGURE 2274

MKARRNKKQIPSFRLIKTSKVLENKLKNKQFKQQSTLKKYRKEQRKLROAVKDAVSKKPIPLENPKEKRPGR
IEREEEEEEALPLDMMDEDDLQLMKDLGQVSLTRDLSSSEPVHAKKRKHERIIDKYEKIPRTLQTAPEKELI
HLLPIKDKSGIIPQTREKPVTDSENKDEEDQEEERELEEEIIEDPIQELTIEEHLIERKKKLQEKMHIAALASAI
LSDPENNIKKLKELRSMLEQDPDVAVTVRKLVIVSLMELFKDITPSYKIRPLTEAEKSTKTRKETQKLREFEEG
LVSQYKFYLENLEQMVKDWKQRKLKKSNNVSLKAYKGLAEVAVKSLCELLVALPHFNHNNIIVLIVPLMNDMSK
LISEMCCEAVKKLFKQDKLGQASLGVIKVISGFVKGGRNYEVRPEMLKTFCLRIKEVEVKKDTEDINKPKKFMTF
KEKRKSLSRMQRKWKKAEEKLERELREAEASESTEKKLKLHTETLNIVFVITYFRILKKAQRSPLLPVLEGLAKF
AHLINVEFFDOLLVVLHTLIESGDL SYQESLHCVQTA FHILSGQGDVLNIDPLKFYTHLYKTLFKLHAGATNEGV
EIVLQCLDVMLTKRRKQVSQQRALAFIKRLCTLALHVLNPNSSIGILATTRILMHTFPKTDLLDSESQSGVFLP
ELDEPEYCNAQNTALWELHALRRHYHP IVQRFAAHLIAGAPSEGSGALKPELSRRSATELFEAYSMAEMTFNPPV
ESSNPKIKGKFLQGDSFLNEDLNQLIKRYSSEVATESPLDFTKYLKTS LH

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FIGURE 2275

ATGGCAGCCCGTCTGCTCCTCCTGGGCATCCTTCTCCTGCTGCTGCCCTGCCCGTCCCTGCCCCGTGCCACACA
GCCGCACGCTCAGAGTGCAAGCGCAGCCACAAGTTCGTGCCTGGTGCATGGCTGGCCGGGAGGGTGTGGACGTG
ACCAGCCTCCGCCGCTCGGGCTCCTTCCCAGTGGACACACAAAGGTTCTGCGGCCCGACGGCACCTGCACCCTC
TGTGAAAATGCCCTACAGGAGGGCACCCCTCCAGCGCCTGCCTCTGGCGCTCACCAACTGGCGGGCCCAGGGCTCT
GGCTGCCAGCGCCATGTAACCAGGGCCAAAGTCAGCTCCACTGAAGCTGTGGCCCGGGATGCGGCTCGTAGCATC
CGCAACGACTGGAAGGTGCGGCTGGACGTGACTCCTAAGCCCCACCAGCAATGTGCATGTGTCTGTGGCCGGTCA
CACTCACAGGCAGCCAACCTTTCAGCCCCAGAAGACCCACCAGGACCAGTACAGCTTCAGCACTGACACGGTGGAG
TGCCGCTTCTACAGTTTCCATGTGGTACACACTCCCCGCTGCACCCTGACTTCAAGAGGGCCCTCGGGGACCTG
CCCCACCACTTCAACGCCTCCACCCAGCCCGCCTACCTCAGGCTTATCTCCAACCTACGGCACCCACTTCATCCGG
GCTGTGGAGCTGGGTGGCCGCATATCGGCCCTCACTGCCCTGCGCACCTGCGAGCTGGCCCTGGAAGGGCTCACG
GACAACGAGGTGGAGGACTGCCTGACTGTCGAGGGCCAGGTCAACATAGGCATCCACGGCAGCATCTCTGCCGAA
GCCAAGGCCTGTGAGGAGAAGAAGAAGACACAAGATGACGGCCTCCTTCCACCAAACCTACCGGGAGCGCCAC
TCGGAAGTGTTGGCGGCCATCACACCTCCATTAAACGACCTGCTGTTTCGGGATCCAGGCCGGGCCCGAGCAGTAC
TCAGCCTGGGTAAACTCCGTGCCCGGCAGCCCTGGCCTGGTGGACTACACCTGGAACCCCTGCACGTGCTGCTG
GACAGCCAGGACCCCGCGCGGGAGGCCTGAGGAGGGCCCTGAGTCAGTACCTGACGGACAGGGCTCGCTGGAGG
GACTGCAGCCGGCCGTGCCACCAGGGCGGCAGAAGAGCCCCGAGACCCATGCCAGTGTGTGTGCCATGGCTCA
GCGGTCACCACCCAGGACTGCTGCCCTCGGCAGAGGGGCCCTGGCCCAGCTGGAGGTGACCTTCATCCAAGCATGG
AGCCTGTGGGGGGACTGGTTCACTGCCACGGATGCCTATGTGAAGCTCTTCTTTGGTGGCCAGGAGCTGAGGACG
AGCACCGTGTGGGACAATAACAACCCCATCTGGTCAGTGC GGCTGGATTTTGGGGATGTGCTCCTGGCCACAGGG
GGGCCCCCTGAGGTTGCAGGTCTGGGATCAGGACTCTGGCAGGGACGATGACCTCCTTGGCACCTGTGATCAGGCT
CCCAAGTCTGGTTCCCATGAGGTGAGATGCAACCTGAATCATGGCCACCTAAAATTCCGCTATCATGCCAGGTGC
TTGCCCCACCTGGGAGGAGGCACCTGCCTGGACTATGTCCCCCAAATGCTTCTGGGGGAGCCTCCAGGAAACCGG
AGTGGGGCCGTGTGGTGA

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FIGURE 2276

MAARLLLLGILLLLPLPVPAPCHTAARSECKRSHKFVPGAWLAGEGVDVTSLRSGSFVPDTQRFLRPDGTCTL
CENALQEGTLQRLPLALTNWRAQSGCQRHVTRAKVSSTEAVARDAARSIRNDWKVGLDVTPKPTSNVHVSVAGS
HSQAANFAAQKTHQDQYSFSTDTVECFYSFHVVHTPPLHPDFKRALGDLPHHFNASTQPAYLRLISNYGTHFIR
AVELGGRISALTALRTCELALEGLTDNEVEDCLTVEAQVNIGIHGSISAEAKACEEKKKKHKMTASFHQTYRERH
SEVVGHHHTSINDLLFGIQAGPEQYSAWVNSVPGSPGLVDYTLLEPLHVLLDSQDPRREALRRALSQYLTDRARWR
DCSRPCPPGRQKSPRDPCQCVCHGSAVTTQDCCPRQRGLAQLEVTFIQAWSLWGDWFTATDAYVKLFFGGQELRT
STVWDNNNP IWSVRLDFGDVLLATGGPLRLQVWDQDSGRDDDLLGTCDQAPKSGSHEVRCNLNHGHLKFRYHARC
LPHLGGGTCLDYVPQMLLGEPPGNRSGAVW

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FIGURE 2277

CCAGATCTCAGAGGAGCCTGGCTAAGCAAAACCCTGCAGAACGGCTGCCTAATTTACAGCAACCATGAGTACAAA
TGGTGATGATCATCAGGTCAAGGATAGTCTGGAGCAATTGAGATGTCACTTTACATGGGAGTTATCCATTGATGA
CGATGAAATGCCTGATTTAGAAAACAGAGTCTTGGATCAGATTGAATTCCTAGACACCAAATACAGTGTGGGAAT
ACACAACCTACTAGCCTATGTGAAACACCTGAAAGGCCAGAATGAGGAAGCCCTGAAGAGCTTAAAAGAAGCTGA
AAACTTAATGCAGGAAGAACATGACAACCAAGCAAATGTGAGGAGTCTGGTGACCTGGGGCAACTTTGCCTGGAT
GTATTACCACATGGGCAGACTGGCAGAAGCCCAGACTTACCTGGACAAGGTGGAGAACATTTGCAAGAAGCTTTC
AAATCCCTTCCGCTATAGAATGGAGTGTCCAGAAATAGACTGTGAGGAAGGATGGGCCTTGCTGAAGTGTGGAGG
AAAGAATTATGAACGGGCCAAGGCCGTGCTTTGAAAAGGTGCTTGAAGTGGACCCTGAAAACCCCTGAATCCAGCGC
TGGGTATGCGATCTCTGCCTATCGCCTGGATGGCTTTAAATTAGCCACAAAAATCACAGCCATTTTCTTTGCT
TCCCCTAAGGCAGGCTGTCCGCTTAAATCCAGACAATGGATATATTAAGGTTCTCCTTGCCCTGAAGCTTCAGGA
TGAAGGACAGGAAGCTGAAGGAGAAAAGTACATTGAAGAAGCTCTAGCCAACATGTCTCACAGACCTATGTCTT
TCGATATGCAGCCAAGTTTTACCGAAGAAAAGGCTCTGTGGATAAAGCTCTTGAGTTATTAATAAAGGCCTTGCA
GGAAACACCCACTTCTGTCTTACTGCATCACCAGATAGGGCTTTGCTACAAGGCACAAATGATCCAAATCAAGGA
GGCTACAAAAGGGCAGCCTAGAGGGCAGAACAGAGAAAAGCTAGACAAAATGATAAGATCAGCCATATTTTCAATT
TGAATCTGCAGTGGAAAAAAGCCACATTTGAGGTGGCTCATCTAGACCTGGCAAGAATGTATATAGAAGCAGG
CAATCACAGAAAAGCTGAAGAGAATTTTCAAAAATTGTTATGCATGAACCAGTGGTAGAAGAAACAATGCAAGA
CATACATTTCTACTATGGTTCGGTTTCAGGAATTTCAAAAAGAAATCTGACGTCAATGCAATTATCCATTATTTAAA
AGCTATAAAAATAGAACAGGCATCATTAAACAAGGGATAAAAAGTATCAATTCTTTGAAGAAATTGGTTTTAAGGAA
ACTTCGGAGAAAGGCATTAGATCTGGAAAGCTTGAGCCTCCTTGGGTTTCGTCTATAAATTGGAAGGAAATATGAA
TGAAGCCCTGGAGTACTATGAGCGGGCCCTGAGACTGGCTGCTGACTTTGAGAACTCTGTGAGACAAGGTCCTTA
GGCACCCAGATATCAGCCACTTTTACATTTTCAATTTTATGCTAACATTTACTAATCATCTTTTCTGCTTAC
TGTTTTCAGAAACATTATAATTCACTGTAATGATGTAATTCTTGAATAATAAATCTGACAAAATATT

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FIGURE 2278

MSTNGDDHQVKSLEQLRCHFTWELSIDDDDEMPDLENRVLDQIEFLDTKYSVGIHNLLAYVKHLKGQNEEALKSL
KEAENLMQEEHDNQANVRSLVTWGNFAWMYHMGRLAEAQTYLDKVENICKKLSNPFYRMECPEIDCEEGWALL
KCGGKNYERAKACFEKVLEVDPENPESSAGYAISAYRLDGFKLATKNHKPFSLPLRQAVRLNPDNGYIKVLLAL
KLQDEGQEAEGEKYIEEALANMSSQTYVFRYAAKFYRRKGSVDKALELLKKALQETPTSVLLHHQIGLCYKAQMI
QIKEATKGQPRGQNREKLDKMIRSAIFHFESAVEKKPTFEVAHLDLARMYIEAGNHRKAEENFQKLLCMKPVVEE
TMQDIHFYYGRFQEFQKSDVNAIHHLKAIEQASLTRDKSINSLKKLVLRKLRRKALDLESLSLLGFVYKLE
GNMNEALEYYERALRLAADFENSVRQGP

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FIGURE 2279

CGGCTGAGAGGCAGCGAACTCATCTTTGCCAGTACAGGAGCTTGTGCCGTGGCCACAGCCCACAGCCCACAGCC
ATGGGCTGGGACCTGACGGTGAAGATGCTGGCGGGCAACGAATTCCAGGTGTCCCTGAGCAGCTCCATGTCGGTG
TCAGAGCTGAAGGCGCAGATCAGCCAGAAGATTGGCGTGCACGCCTTCCAGCAGCGTCTGGCTGTCCACCCGAGC
GGTGTGGCGCTGCAGGACAGGGTCCCCCTTGCCAGCCAGGGCCTGGGCCCTGGCAGCACGGTCCTGCTGGTGGTG
GACAAATGCGACGAACCTCTGAGCATCCTGGTGAGGAATAACAAGGGCCGCAGCAGCACCTACGAGGTCCGGCTG
ACGCAGACCGTGGCCACCTGAAGCAGCAAGTGAGCGGGCTGGAGGGTGTGCAGGACGACCTGTTCTGGCTGACC
TTCGAGGGGAAGCCCTGGAGGACCAGCTCCCGCTGGGGGAGTACGGCCTCAAGCCCTGAGCACCGTGTTTCATG
AATCTGCGCTGCGGGGAGGCGGCACAGAGCCTGGCGGGCGGAGCTTAAGGGCCTCCACCAGCATCCGAGCAGGAT
CAAGGGCCGGAATAAAGGCTGTTGTAAGAGAAT

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FIGURE 2280

MGWDLTVKMLAGNEFQVSLSSMSVSELKAQITQKIGVHAFQORLAVHPSGVALQDRVPLASQGLGPGSTVLLV
DKCDEPLSILVRNNKGRSSTYEVRLTQTVAHLKQOVSGLEGVQDDLFWLTfEGKPLEDQLPLGEYGLKPLSTVFM
NLRLRGGGTEPGGRS

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FIGURE 2281

ATGTCGGATTTCGGAGGAGGAGAGCCAGGACCGGCAACTGAAAATCGTCGTGCTGGGGGACGGCACCTCCGGGAAG
ACCTCCTTAACACGTGTTTTGCTCAAGAACTTTTGGGAAACAGTACAAACAACTATAGGACTGGATTTCTTT
TTGAGAAGGATAACATTGCCAGGAACTTGAATGTTACCCCTTCAAATTTGGGATATAGGAGGGCAGACAATAGGA
GGCAAAATGTTGGATAAATATATCTATGGAGCACAGGGAGTCCTCTTGGTATATGATATTACAAATTATCAAAGC
TTTGAGAATTTAGAAGATTGGTATACTGTGGTGAAGAAAGTGAGCGAGGAGTCAGAACTCAGCCACTGGTTGCC
TTGGTAGGCAATAAAATTGATTTGGAGCATATGCGAACAATAAAACCTGAAAAACACTTACGGTTTTGCCAGGAA
AATGGTTTTAGTAGCCACTTTGTCTCAGCCAAGACAGGAGACTCTGTCTTCCTGTGCTTTTCAGAAAGTTGCTGCT
GAAATCCTTGGGATCAAATTAACAAAGCAGAAATAGAACAGTCACAGCGTATTGTTCAGGGCAGAAATAGTGAAG
TACCCGGAAGAAGAAAATCAACATACCACCTCTACTCAGAGTAGAATCTGTTTCAGTACAGTAGTGCAGAGGGTGG
TGAAGGCAGATATTGTAAACTACAACCAGGAACCTATGTCAAGGACTGTTAACCCCTCCTAGAAGCTCTATGTGTG
CAGTTCAGTGAGCGCATTTTTCC

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FIGURE 2282

MSDSEESQDRQLKIVVLGDGTSGKTSLTTCFAQETFGKQYKQTIGLDFFLRRITLPGNLNVTLQIWDIGGQTIG
GKMLDKYIYGAQGVLLVYDITNYQSFENLEDWYTVVKKVSEESQPLVALVGKNKIDLEHMRTIKPEKHLRFCQE
NGFSSHVFSKGTGDSVFLCFQKVAEILGIKLNKAEIEQSQRIVRAEIVKYPEEENQHTTSTQSRICSVQ

[illegible]

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FIGURE 2284

MNPTDIADTTLDESIYSNYLYESIPKPCTKEGIKAFGELFLPPLYSLVFVFGLLGNSVVVLVLFKYKRLRSMTD
VYLLNLAISDLLFVFSLPFWGYAADQWVFGGLCKMISWMYLVGFYSGIFFVMLMSIDRYLAIVHAVFSLRART
LTYGVITSLATWSVAVFASLPGFLESTCYTERNHTYCKTKYSLNSTTWKVLSSLEINILGLVIPLGIMLFCYSMI
IRTLQHCKNEKKNAVKMIFAVVFLGFWTPYNIVLFLETLVELEVLQDCTFERYLDYAIQATETLAFVHCCLN
PIIYFFLGEKFRKYILQLFKTCRGLFVLCQYCGLLQIYSADTPSSSYTQSTMDHDLHDAL

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FIGURE 2285

AGGCGCTAGAGGCGGGGCGCCGGGAGGCGGGGCTTTGCTCCTGGGGTCTCGGCCTTGGCCGGCTGGACCTGAC
CCTAGGGCGGCTTGGCGAGCTGTGCGGACGTGACTGCGTTTCAGCCGCGTCGGGCGTGCTTCCAGACTTGCCCAA
GTTCCGGGTGCCCTAGCTGCCCCCTTTGCAGCCGCTGGCCTACCCGGCCCGCGGGTGAGAAGGTTGCGACGGGAGGT
GGGTGGAACCTCGCCAGCGCCGGGACCGCGGATTGGCTGCTTCGGCTTTCTCTTTTCCCGTGGGCTCCGGCGTGA
GGCGCTGAAGCGGCCGGCAGCCGGCGACCGGCCCTCACCGTCCGCGGGTTGCGCTCTGCTTTTGGCGGTGAGGCG
TTGACCACGCCCATATGAATTGGAGCTCTCCGCCAGTAGGAGTTTCCGGAAGGAGTTTGAATTTTGTGATTTTT
ATGCTTGTGTTGGTGGTGAATATGTTGGGATTTATGTTTGCCTCTGAACAAGTGTCTTGCTCACATCGTAAATG
ACTTTCTCTCCGAAACGCTAAATATTCTTTCCCGCAGGAGCTCATATCCTTATTTTCCATGACAGATCTTAACGA
CAATATATGCAAAAGATATATAAAGATGATAACTAATATAGTTATACTGAGCCTGATCATTGCAATTTTCGTTAGC
TTTCTGGATTATATCAATGACTGCAAGCACCTATTATGTTAACTTACGACCTATTTCTCCGTGGCGTTGGCTGTT
TTCTGTGTTGTTTCTGTTCTGATCGTCTCTAATGGCCTTAAAAAGAAAAGTCTAGATCACAGTGGGGCTCTAGG
AGGGCTAGTCGTTGGATTATCCTAACCATTGCAAAATTTAGCTTTTTTACCTCTTTGCTGATGTTTTTCTTGTC
TTCTTCGAAACTCATAAATGGAAGGGAGAAGTGAAGAAGCGTCTAGATTGAGAATATAAGGAAGGTGGGCAAAAG
GAATTGGGTTTCAGGTGTTCTGTAATGGAGCTGTACCCACAGAAGTGGCCCTGCTGTACATGATAGAAAATGGCCC
CGGGGAAATCCAGTCGATTTTTCGAAGCAGTACTCCGCTTCTCGGATGTGTTGTCTCTCTTGCTGCACTGGC
CTGCTCTGCTGGAGACACATGGGCTTCAGAAGTTGGCCAGTTCTGAGTAAAAGTTCTCCAAGACTGATAACAAC
CTGGGAGAAAAGTTCCAGTTGGTACCAATGGAGGAGTTACAGTGGTGGGCCTTGCTCCAGTCTCCTTGGTGGTAC
CTTTGTGGGCATTGCATACTTCTCACACAGCTGATTTTTGTGAATGATTTAGACATTTCTGCCCCGAGTGGCC
AATTATTGCATTTGGTGGTTAGCTGGATTACTAGGATCAATTGTGGACTCATACTTAGGGGCTACAATGCAGTA
TACTGGGTTGGATGAAAGCACTGGCATGGTGGTCAACAGCCCAACAAATAAGGCAAGGCACATAGCAGGGAAACC
CATTCTTGATAACAACGCAGTGAATCTGTTTTCTTCTGTTCTTATTGCCCTCTGCTCCCAACTGCTGCTTGGGG
TTTTTGGGCCAGGGGGTGAACCTTTATTTTCACTTCCACAGGTTGAAACTGGTGAGTCCAGCTAAATTTGCAATTCC
AACTTTTCACTTAAGAATAATAACTGTAATGGCAAGCGGAAATGCCAGTTCTCCTGTATTCCATTGAGATGGG
ATTTACATTTTCTCTCATCAACTCCCTGTAATAGCTAGCGTCTTTCTAGTGAAGAGAAGAATCTCTAGAAC
TTATGCATTTTTTCTGCTGAATGGAAGTCTTGAGCAATGAAGCTATATTGTCCTACATATTACTATATATTG
AACTGAAAGTTCTTACATAATCAATGTCAAGTTTGTCTTATTTGTTTTGTTTTGTTAAACCAGTGTAGGAAAT
AAAAGTGATGATATTTAAATAGTTCTCAGTTGAAGCAGAGAAATGCCACTGTGCTAGTTGCCCAATGTTGTAT
CTATTTTAAATAGTTTAAAGCTGATGTGTATGGGAGCCTAAACAAGTGTAGTATCCTGAACTTCTCCCATTAATTG
CTATTCACAATTGGGAAAAGTGTGGAGATTGGTTCTAGTGAGTTTTGTGGCCTACTCCACATTTGTTCTTCTT
CCTCAGGGTTAGTGATGAAAAAAGTAAATATCTTTTTCATATGTCCATTAGAATGTATGAAAAAATCATTTTA
ACTAAAAGCAAAAGAATTTTATCTTATATCTAAAAAATATATAACTTACTATATGTTTCAGTTGCTCTCTGAACA
AAAATTATCTTCAATTTAATATGTGGAATGTGTTTTCTAGCTTTCTTTGAATTATGTATGGCAACCTGGTTTAGC
ACTGGCATCCTGAACAGTTAAGAGTCACTGGGAAATATTGTATTCTTTATAAATTTACTGTATATCAATTGC
TGGAAATGCTATGATTTTTCTATTATTACCTTCTAAGTTGTATTCTCTCTTACACTGTAGCCTCAACTAAGGCA
ATTCTGCTATGTTTGTCTTCACTATGATTTACTGTGTGCCAAAGGAGTTTTGACAGGGTACAGAGTATTTACT
AAAAGTATTTTTAAATGTTTCTCATGTGATTTCTGTACCTTCTTCTCCTGCCCCCTTTGCTTTTTTAAAGAAAC
TGGGGAAGGATTATGAATACACCACCAGAGTGGATAATGCTTAGAATTCTTTATTGGTGGCCCTACTATGG
TGATGATCTAGAACTGACTTACTTCAGGACAGAAGAAAAACAATCACACCCTTAACCTTAAGCCAGTTAGATC
AGGGGGTTGCAACAATTGGGTTAACTTTGGGTATACATTGGAAGCACCAGGGCATGTTGCTTTTTTTGTTTAT
GTGTTTGTTTTTTGAGACAGAGTCTCACACTGTGGCCAGGCTGGACTCCAGCACAGTGGCATGATCTCAGCTCC
GCCTCCTGGGTTACGTGATTCTCATGCCTCAGCCTCCCGGTGGCTGGGATCACAGGCGTGCACCATCACGCCC
GGCTAATTTTTGTATTTTCAGTCGAGACCGGCCCTGGCCAACGTGGTGAAACACCGTCTCTACTAAAAATACAAAA
AATTAGGTGTGGTGGTGGTGCCTGTATTCCCGCCACTCGGGAGGCTGAGGCAGGAGAATCGCTGGAACCTGGG
ATGTGGAGGTTGCAGTGAGCCAAGATTGCACCACGTACTCCAGCCTGGGCAACAGAGGGAGACTCCATCTAGAC
TCCATCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2286

MTDLNDNICKRYIKMITNIVILSLIICISLAFWIIISMTASTYYGNLRPISPWRWLFVSVVVPVLIVSNGLKKKSLD
HSGALGGLVVGFIITIANFSFFTSLLMFFLSKKLTKWKGEVKKRLDSEYKEGGQRNWVQVFCNGAVPTLALLY
MIENGPGEIPVDFSKQYSASWMCLSLAALACSAGDTWASEVGPVLSKSSPRLITTWEKVPVGTNGGVTVVGLVS
SLLGGTFVGIAYFLQLIFVNDLDISAPQWPIIAFGGLAGLLGSIVDSYLGATMQYTGLDESTGMVVNSPTNKAR
HIAGKPILDNNAVNLFSSVLIALLLPTAANGFWPRG

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FIGURE 2287

CACAGGGACTGCGCTCCCTTGCCCTAGCGCTCCCGCGCTGCTGCTCCAGCCGCCCGGCAGCTCTGAGGATGGAG
AGGAGGGCGCGGAGCTCCTCCAGGGAGTCCCGCGGGCGAGGCGGCAGGACTCCGCACAAGGAGAACAAGAGGGCA
AAGGCCGAGAGGAGCGGCGGGGGCCGCGGGCGCCAGGAGGCTGGGCCCCGAGCCGTCGGGCTCCGGACGGGCGGGG
ACCCCGGGGAGCCCCGAGCGCCCGCCGACGGTGGTGGACGTGGATGAGGTCCGAGGCTCCGGCGAGGAGGGC
ACCGAGGTGGTGGCGCTGTTGGAGAGCGAGCGGCCGAGGAAGGTACCAAATCCTCCGGCTTAGGGGCTGTGAG
TGGCTTCTGTCTCATTTCCCTGCTCTTCATCATCATGACCTTCCCTTTTTCCATCTGGTTCTGCGTAAAGGTT
GTACAAGAGTATGAAAGAGTAATTATATTCGACTGGGACATCTGCTTCCTGGAAGAGCCAAAGGCCCTGGTCTT
TTCTTTTTTTTGGCCTGCCTGGATACCTACCACAAGGTTGACCTTCGTCTCCAACTCTGGAGATACCTTTTCAT
GAGATCGTGACCAAAGACATGTTTATAATGGAGATAGATGCCATTGCTACTACCGAATGGAAAATGCCTCTCTT
CTCCTAAGCAGTCTTGCTCATGTATCTAAAGCTGTGCAATTCTTGTGCAAACCACTATGAAGCGTCTCCTAGCA
CATCGATCCCTCACTGAAATTCTTCTAGAGAGGAAGAGCATCGCCCAAGATGCAAAGGTTGCCTTGGATTCACTG
ACCTGTATTTGGGGAATCAAAGTGGAGAGAATAGAAATTAAAGATGTGAGGTTGCCAGCTGGGCTTCAGCACTCA
CTGGCTGTGGAGGCTGAAGCGCAAAGACAAGCCAAAGTGCGGATGATTGCTGCAGAAGCGGAAAAGGCTGCTTCT
GAGTCCCTGAGGATGGCAGCTGAGATTCTGTGAGGCACCCCTGCTGCTGTTTCAGCTTCGATACCTCCACACCCCTT
CAGTCTCTGTCCACAGAGAAGCCTTCCACTGTGGTTTTACCTTTGCCATTTGACCTACTGAATTGCCTGTCTTCT
CCCAGCAACAGAACTCAGGGAAGCCTCCCTTCCCAAGTCCTTCCAAACCTGTTGAGCCACTAAATCCTAAAAAG
AAAGACTCTCCCATGTTATAGGAAGGATGGGGCATAATGTGACTGTAAAGGGGCCTGCCATAGAAAAGTCACATC
CCTGAGGGAGACACTCTGTCTCATTCCCTGCCCTTCTTTGGTTGCCATATGGAATGGCCATGGAATGCACGAA
GTCACAATGCACCATCCATGAGAAGACAGTGAATGATGTAATGACAGAGAAGGCAGACAACATGTTCCGTGAC
TCATCTAGTCAGAGCAATTATGGGAAACAGCTTTGGTCAACATTCTACTTTGGAAAGAATTTTGTAGTCTAGATGT
GGTTAAATTTTACTTCTGGGAACCTGGTTTTCAGATGTCCCTTTTCACTGTATGTCCTCTGACCCCTTTGGCAAGGT
TGCCACAGCTCCACAGCCCTTCTACAAGCACCTATCATTGGGCTTGTACACTCTATTGCTCTTCTGTCCCGA
AGATGCAGTCTTCTCTCCAATGATACTACCAAGTCTTAGTTTTCTCAACCACACTCAATCTTTTTGTCTCCACCC
TGAATTCCTCACACCTAACCTGATAGTTACCTAAAGTGACACTTAAATGTTTCAGAGTGAATGCAAAAAAGAGA
GATGTACTTGGAGTCGGATATACAATTTATCCCTAATTAAAGCATTTAAAGG

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FIGURE 2288

MERRARSSSRESRGRGGRTPHKENKRAKAERSGGGRGRQEAGPEPSGSGRAGTPGEPRAPAATVVDVDEVGRSGE
EGTEVVALLESERPEEGTKSSGLGACEWLLVLI SLLFIIMTFPFSIWFCVKVVQEYERVIIIFRLGHLLPGRAKGP
GLFFFLPCLDTYHKVDLRLQTLEIPFHEIVTKDMFIMEIDAICYRMENASLLLSSLAHVSKAVQFLVQTTMKRL
LAHRSLTEILLERKSIAQDAKVALDSVTCIWGIKVERIEIKDVRLPAGLOHSLAVEAEAQRQAKVRMIAAEAEKA
ASESLRMAAEILSGTPAAVQLRYLHTLQSLSTEKPSTVVLPLPFDLLNCLSSPSNRTQGSLLPFPSPSKPVEPLNP
KKKDSPML

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FIGURE 2289

ATGGATGGGGGAACCGGGCGGCGAGACGGCGGCAGGACGGCGGCAGGATCTGTGTGACCGGAATGGTGGTCGGCGGC
TTCGACAGTGGCTGATCGAGCAGATTGACAGTAGCATGTATCCAGGACTGATTTGGGAGAATGAGGAGAAGAGCA
TGTTCCGGATCCCTTGGAACACGCTGGCAAGCAAGATTATAATCAGGAAGTGGATGCCTCCATTTTAAAGGCCT
GGGCAGTTTTTAAAGGGAAGTTTTAAAGAAGGGGACAAAGCTGAACCAGCCACTTGGAAGACGAGGTTACGCTGTG
CTTTGAATAAGAGCCCAGATTTTGAGGAAGTGACGGACCGGTCCCAACTGGACATTTCCGAGCCATACAAAGTTT
ACCGAATTGTTCTGAGGAAGAGCAAAAATGCAAACTAGGCGTGGCAACTGCTGGCTGCGTGAATGAAGTTACAG
AGATGGAGTGCCTGCTCTGAAATCGACGAGCTGATCAAGGAGCCTTCTGTGGACGATTACATGGGGATGATCA
AAAGGAGCCCTTCCCGCCGGAGGCCTGTCGGAGTCAGCTCCTTCCAGACTGGTGGGCGCAGCAGCCAGCACAG
GCGTGCCGCTGGTGACGGGGTACACCACCTACGACGCGCACCATTTCAGCATTCTCCAGATGGTGATCAGCTTCT
ACTATGGGGGCAAGCTGGTGGGCCAGGCCACCACCACCTGCCCCGAGGGCTGCCGCTGTCCCTGAGCCAGCCTG
GGCTGCCCCGGCACCAAGCTGTATGGGCCGAGGGCCTGGAGCTGGTGCGCTTCCCGCCGGCCGACGCCATCCCCA
GCGAGCGACAGAGGCAGGTGACGCGGAAGCTGTTCCGGCACCTGGAGCGCGGGGTGCTGCTGCACAGCAGCCGGC
AGGGCGTGTTCTGTAAGCGGCTGTGCCAGGGCCGCGTGTTCTGCAGCGGCAACGCCGTGGTGTGCAAAGGCAGGC
CCACAAGCTGGAGCGTGATGAGGTGGTCCAGGTCTTCGACACCAGCCAGTTCTTCCGAGAGCTGCAGCAGTTCT
ATAACAGCCAGGGCCGCTTCTGACGGCAGGGTGGTGCTGTGCTTTGGGGAAGAGTTCCGGATATGGCCCCCT
TGCGCTCCAACTCATTCTCGTGAGATTGAGCAGCTGTATGTCCGGCAACTGGCAGAAGAGGCTGGGAAGAGCT
GTGGAGCCGGCTCTGTGATGCAGGCCCCGAGGAGCCGCCGCCAGACCAGGTCTTCCGGATGTTTCCAGATATTT
GTGCCTCACACCAGAGATCATTTTTTTCAGAGAAAACCAACAGATCACCCTCTAAGTGCCTGCGTTGGGCGCCCCAC
CCCGTCTGCGTCTGATCCATCTCCCTGTTACAGTGGCCCGCATCATGATTAAAGAATGTGGATCCCTCTGTCT
GGGGTGGGATGCCTTACTTTGCACCTTAATTTAATAAGGGCATTCTCGGAGGAGTAGACGTTTAATACGAAGTGGC
GCATAGCCCTGCCGAGATGTCGGTGATGGCCTGATGCG

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FIGURE 2290

MCDRNGGRRRLRQWLIEQIDSSMYPGLIWENEEKSMFRIPWKHAGKQDYNQEVDAIFKAWAVFKGKFKEGDKAEP
ATWKTRLRCALNKSPDFEEVTDROLSQDISEPYKVYRIVPEEEQKCKLGVATAGCVNEVTEMECGRSEIDELIKEP
SVDDYMGMIKRSPSPPEACRSQLLPDWWAQQPSTGVPLVTGYTTYDAHSAFSQMVISFYGGKLVGQATTTCP
GCRLSLSQPGLPGTKLYGPEGLELVRFPADAIPSERQRQVTRKLFHGLERGVLLHSSRQGVFVKRLCQGRVFC
GNAVVCGRPNKLERDEVVQVFDTSQFFRELQQFYNSQGRLPDGRVVLFCGEEFPDMAPLRSKLILVQIEQLYVR
QLAEEAGKSCGAGSVMQAPPEEPPPDQVFRMFPDICASHQRSFFRENQQITV

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FIGURE 2291

GGTGTAAGCAAGCTGTGATTCTTGGGAAAAGTAAAAAGTTTTCTGGGACAACGGGGCCCCAGAGTGATGGCAG
ACAATGTCAGCCACTAACAACATAGCCCAGGCCCGGAAGCTGGTGGAACAGCTACGCATAGAAGCCGGGATTGAG
CGCATCAAGGTCTCCAAAGCGGCGTCTGACCTCATGAGCTACTGTGAGCAACATGCTCGGAACGACCCCTGCTG
GTCGGAGTCCCTGCCTCGGAGAACCCTTTAAGGACAAGAAACCTTGTATTATTTTATACTGTGTTCTCATATG
TTCTCTCTCTCTCTCTTTCTTTCTCTCTCTCTCTGTCTCTGTCTCTGTCTCAGGCAGGGCATCATTAGTAAT
TAGCTCAAACAAAACATCTCAAGTCCCCAAAACCTTTAATTCCAAAAGAAATCCCCCTCTACCCGCCAAAAAA
GGCGTTCCACCGCCCGGATGGGGTAGAATGGACCTTGTAGGTGGAGATGAATTTTCAGGTCCGACCCCATGGCC
TTCTCAGTTTGGGCCAAAAGGGATGGAGGCTTTACGGCCACTTCCCGTTCGGAATAACTGAAATCCCCAGCGATG
GGGTAAACAATTTTTTAAACTCTCGATTGCCGTTTCAATTGTGGACCGGCCCGAGGGGAAAGGGAGGTGACTT
CGCCCGGTGGCAATAGTTCCGGGAGAATTGGCCATTGGTAAAAAGACTTCATAGGGTCACTGGAATGCTTTGTGT
TGTTTTAAGTAGAGGTAAAATTGAGATGGGGGGCGGGAGGTGACATCATGAAGTTTTTTGGAAATATCTCTTTA
TTAAAAAATTGTTACTCCATACGGCTAAAAAAG

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FIGURE 2292

MSATNNIAQARKLVEQLRIEAGIERIKVSKAASDLMSYCEQHARNDPLLVGVPASENPFKDKKPCIIL

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FIGURE 2293

CGGTGCTAGCGACACGGGAGTGGCAAACGCATCCTCTTGCCGTTCCCGGTGTTTGGGCCTTGCCCTGTGACGGTGG
GAAAAGAAAATGGCCTTGCTGTGCTACAAACGGGGCTGCGGTGAGCGCTTCGATCCTGAGACCAATTCCGACGAT
GCTTGACATAACCCAGGTGTTCCGGTCTTTACGATGCATTAAAGGGTTGGTCTTGCTGTAAGAGAAGAACA
ACTGATTTTTCTGATTCTTAAGCATTGTAGGCTGTACAAAAGGTAGACATAATAGTGAGAAGCCACCTGAGCCA
GTCAAACCTGAAGTCAAGACTACTGAGAAGAAGGAGCTATGTGAATTAAACCCAAATTTGAGGAACACATCATT
CAAGCCCCTAAGCCAGTAGAAGCAATAAAAAGACCAAGCCCAGATGAACCAATGACAAATTTGGAATTAAAAATA
TCTGCCCTCCCTAAAACAAGCATTGATAAACTTAACTGTGCATCAGGGAATGAAGAAAATAAGAAAGAAGAAGAC
AATGATGAAATTAAGATTGGGACCTCATGTAAGAATGGAGGGTGTTCAAAGACATACCAGGGTCTAGAGAGTCTA
GAAGAAGTCTGTGTATATCATTCTGGAGTACCTATTTTCCATGAGGGGATGAAATACTGGAGCTGTTGTAGAAGA
AAAACCTCTGATTTTAAATACATTCTTAGCCCAAGAGGGCTGTACAAAAGGGAACACATGTGGACTAAAAAAGAT
GCTGGGAAAAAAGTTGTTCCATGTAGACATGACTTGCATCAGACTGGAGGTGAAGTTACCATTTCAGTATATGCT
AAAACTCACTTCCAGAACTTAGCCGAGTAGAAGCAATAGCACATTGTTAAATGTCATTATTGTATTGTAAGGA
GAGAAGGAATTTGATCAAAATGTGAAATTATGGGGTGTGATTGATGTAAAGCGAAGTTATGTAACATGACTGCA
ACAAAGATTGAAATCACTATGAGAAAAGCTGAACCGATGCAGTGGGCAAGCCTTGAAGTGCCTGCAGCTAAAAAG
CAGGAAAAACAAAAAGATGACACAACAGATTGAGTGGGAGATGGAAGGAAGGCTATTACATTATTTCCGAATTTT
TAATACTGTGTGAAGTGGTGGCTTGCTGCTGTAATCTTTTGTGTTGTTGTGTTACTGAAIGTGGCATTTCAG
GGTTAACATTAGGTTCTTAAAAGCCAAAGTCAGTTTGTCTTTTGTGCCTCTCATCTTTCTTTTGTGTTATGTAA
GATTGATTATTCATTTCTCCCTACTGGTAGGAACCATAGTTGTGTCCTATACTTGAAGAGGCTGGAAAGTAGCCC
ATAACCATAATTGCAGTATTTCTTTGTATTTCTGTGTTAAGCAAAGAAATATTAAGGAACATTTTTTTTATGTTT
TTGTATTATTCATAATTAGTAAAGCAAGATGAAATGTCAAATTTAATCAGTTTTTTTCATGGATTGTGTTCTT
ACAGTACTTGAAAATATTTAAGGAAGAGATGAAGCTCTGCAGTTTTTTCTATGTGGGATGATTACTTTTTTAAGG
AGGATTAATTCTGAGGTAGTATAGTAACTAAAGGGGAATATATGAATTGTTTAAACAAATTAGAATTTGTTTACAA
CTACTTGAATTTTTAAATTATGTCAAACTTACATTACTTGCCAAGCAGTATGATGTTATAGGAAACATAAAATA
GATTACAGAGGTATCAATTTGGTTAAAATTCACCATTTTATAAGACTAAGCAATAATCTTAACAACCTCTTTCCT
GAATATTTAAATGTGTTTGTATGGTGTATGACTAATTGTTACTGATTAGAGACTAAGCCCTCTTAAACCTTT
AGTTAAATATAAAAAAGAAATTATATATATCTTGCCCTCCCTGATGGAAAACATATAAAATGTAGACTTAAAGG
TTTGTGGAATACATTAGGATATCAGAAAACATAATATATGGAGTTGCTTTATGACTATTACATGTTAAATAAAA
ATAGCTTAATTGTTAAAAA

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FIGURE 2294

MALLCYNRGCGQRFDPETNSDDACTYHPGVPVFHDALKGWSCCKRRTTDFSDFLSIVGCTKGRHNSEKPPPEVPKP
EVKTTEKKELCELKPKFQEHIIQAPKPVEAIKRPSPDEPMTNLELKISASLKQALDKLKLSSGNEENKKEEDNDE
IKIGTSCKNGGCSKTYQGLESL EEVCVYHSGVPIFHEGMKYWSCCRRKTSDFNTFLAQEGCTKGKHMWTKKDAGK
KVVPCRHDHLHQTGGEVTISVYAKNSLP ELSRVEANSTLLNVIIVFEGEKEFDQNVKLWGVIDVKRSYVTMTATKI
EITMRKA EPMQWASLELPAAKKQEKQKDDTTD

CCCAGGCCGCTCTGGCCCTCTGACCCAGACAGCGAGGCGCGAGGATCGCGCGGCCGAGCCCGGGTTCGCCGC
GCTCCCAGCAGCTCGGGCCGCTAGCCAAAGAGTTTCGAGGCCCTTCCCGATCCGGATGTGATGAAAAAGAGCAACAGAG
GGAGAAGTGTTCAGGATTGTAGGAGTGGAAAGAGGGGAAAGAGAGGCAGAGAGGGGGAAGGCCCTTCGACAGGGG
AGCCGGCTGGAGTGAGCTGGCTGGAAAGAGGGGGCGGAGTGC GCGGAGTCAGAGCCGCCACCGCTGCCGCAGTTG
CCGCCACTGCGGCGTCTGGGCTGAGCCGGAGGGAGGCGGGAGGACGCGCAGGGGCGGCGCGCGCTCGTTCAGGC
CACCGGGGCGAAAAATGCGGCCGCTGCCGGAGGCTCGCTAACTTTCCGGGGCGGAAGAGGAGGAGGAGGAGGAGGA
AGGGGCTTGGAGCGACTACGGGGGATGCGGAGAAGCAGTCAGTTCCCTGCACCCAGCACCTCACAGCCCTTCTCT
CCGTGCGCCCTGCGGGGCGGCGAGCTAGGCGGCAGCGGCGCGGCGCGGGCTCGGCGGAGCGGCCATGTCCGGCG
CGGGCGAAGCCCTCGCTCCCGGGCCCGTGGGGCCCGCAGCGCGTGGCCGAGGCGGGCGGCGGCCAGCTGGGCTCCA
CAGCCCAGGGAATAATGTGATAAAGACAATACTGAGAAAGATATAACTCAAGCTACCAATAGCCACTTCACACATG
GAGAGATGCAAGACCAGTCCATTTGGGGAAATCCTTCGGATGGTGAATCATTAGAACCCAACTCAGCGCTTGC
CTCAGCTTCAGACTTCAGCACAGGTGCCAAGTGGTGAGGAAATAGGCAAGATAAAGAACGGCCACACAGGTCTGA
GCAATGGAAATGGAATTCACCACGGGGCCAAACACGGATCCGCAGATAATCGCAAATTTTCAGCACCTGTTTCTC
AAAAATGCGATAGAAAAATTCAGTCCAGCTTGTCTGTAAACAGCGATATCAGTAAGAAGAGCAAAGTAAATGCTG
TCTTTTCCAAAAGACAGGCTCTTCACCTGAAGATTGTTGTGTCCACTGTATCCTGGCTGCTTGTCTGCGAAT
TCCTGACCCCTTTGCAACATTGTCTGGGACAAGCGTCATGTGGCATCTGCACCTCAGAAGCCTGCTGCTGTTGCT
GTGGTGACGAGATGGGGGATGATTGTAAGTGCCTTGTGATATGGACTGTGGCATCATGGATGCCTGTTGTGAAT
CATCAGACTGCTTGGAAATCTGTATGGAATGCTGTGGAATTTGTTTCCCTTCATAAATATTTATCTTTTGTGTTG
GTTAAACTGGAGAGTGTTTAAAAATTTCTTTTGGGGGGAAGAAAAGCACATTGTAAGATTCTCATGAAACAAC
ATGGAATTTGCACTGTTAACTCATTATTGTAAGTAATCTCTGAAAGCCTTTTTACTTTAACCAAATCTACATGGT
TTAATATGTGAAATTTTAACTACTTTAACTAGTTTTATAAATTTCTTAATATGTTACAATAACTTAGGGACATTT
TGACACCCCCCTTCCCAAATGTTAAATGCCCTTCTCTTTTACCGATATTTCTGTTTCTTTAACCGTTCTCAGG
AGCACTTTGCTCCAATATATTATTTTTAGTGTGATTAAACGAGGCGAGTTTATTTTGATATGTATCTATTCA
TGATTGAAAGGAAGCAGTCTTGGCCAGGCACGGTGGCTTACACCTGTAACCTTGGCATTTTGGGAGGCCAAGGTG
GGCAGATTGCCTGAGCTCAGGAGTTCGAGACCAGCCAGGGCAACATGGTGAAACCCCATCTCTACTAAAATACAA
AAAGTTAGCTGGGCTTGGCGGTGTGCGCCTGTAGTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATTGCTTGAA
CCCAGAGGCGGAAGTTGCAGTGAGCCGAGATTGTGCCACTGAACTCCAACCTGCACTCCAGCCTGGGCAACAGA
GCGAGACTCCATCTCTAAATAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA
TATTTTAAAGAAACTTTAGGAAACAAACCCACATAATAGTTGGGAACAGTGTTGATCTCTCTCCCTTACCTTC
TCCACTGTTTCAACAGACTCTGAATGCCGACTGTGTGGACTCTCTTCTCAGACTGTGGGGACAGATACAATTCC
ACTCCTGTCCACAGGAACATGAGATTTAGCAGACTAAGGAGATCTGTAAGAATGAACCATACCACAAGGCATAC
TGAAGTGAGGATTATAAGAGAAATAAACTCAAATGCTGTTGGAATATGCAGAGAATTGCTACCAGAATATTACG
TAAGGTTTCAGGGAGAATGTGGCATTGTAGGACTCTCTTAGAATGAGTGATTACCTGCTATTTAAATGAATTAT
TTAGATTTTTGACAAAGATTAGGTGGACACCCTAAACTGTGTGCGCTTTAACCAGTTAAAGAACAGTGCCCT
CAGCATACTTTTTATTAGTTGTAGGAATACAGCTTTTTTGAAAAGCTATAAAGTTTAAATTAACATAAAATATG
CATTTTCTTACATAAATTTAAATGTTATCATACTTTTTTGATGAAAACATAATGCCTTAGTAAATAGCTCTAT
TTAATAAAGAAGATTGAGTACTCTGACACATTTCAATTTAAATTAGGAAATTTTAAATATTAATAATCCAGTGTT
TGAGTTATTGAAAGGCTTCTTTTATTGAGAGCTTTAGGTCTTTTTGGGATGAGAACATTTTAGTTGTTTAGT
TTGTTTCTTAAGCAGTCTATTTTTTGTAACACAGATAAATGGAACCATCTTTTCAATGCAGAAGAAATCTA
GATATCCCCTACTGTGACCAAATTTCTGTATTACGATTTTATGTTAAATTAACATAATATGGCAGGTTATAATGA
TCCTTAAGTGATAAAGAAATCAGTCAATTACAAGAGTAATTGTATAGTTATTGAGACCTATAGTGTGTGGCTTAGA
TGAAAGGGAGAGTAAATTTTCATACCATGCTCTCTCCTACTCAGTTTGATCTCTCTAAATTTGATGTTTGGTTG
ATTTAATATAATTTCTAGTAGAAATTTTGAAAGTATGCTTTGGGATTAATAATTATTTTAAATTTTCTGGCTGA
ATATCAAATTGATAGTAACAACAGAAGCATAATTTAGGAAGGCTTTCGCAAACCTAGCCTTTTAAGAGAGGTTT
TTAACCTGAAGCATGAGAATATATCACCTGTGGTTTTCTTTGAGATGAAACGTAGTTTCTAGTTATATCATT
CTTAAAGGGCTTAAAAAGAAAAAATCTAGCAAACCTTTGAATCTTTCTTTTATTGCTATTTACACATACATAC
ACATACAAAACCTTTAAATTTTGGGATCTGAATATAATTCTGGTAAACAGCTGTCTTCATTTTCTCCTCTAAAG
AACTTAATTCATTTGTTACATAAAATATAAGGAAATCTTTATACTATTTTACAGTAACCACAATCTAAATATTTA

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FIGURE 2295B

CATATACCCAAAATTAACCTTATGCTCATATATTAGGATGTGAGAATATCATCTGTTTATGGACACATGAAACCTC
CTAATGACCTGGAATTGTTAGAAATATTTGACTTTTTATATGCAAAGTTTTCAACCAAGTGGTTTGTCTAATATT
TAAACATGTACTGGCACAATTTGTGATGAAAATATTAGCACATTTGCAATAATGTTTCTCCATAACAGAGAATGT
TAATGGATAACCAGAATTTTATTTTTGTATTTATGTTCAAGTACTTTTCTCTTGTCTACTCCAGACAGTTATTC
CATAAAGCATTGTATAATTAAAAGGAAAACAGAAAAAGGAAAAGTAGGCAAATGTGAAAATAGTTTCAATATAT
CTTATGATTTCTTAATGTAAAATGTTTTGTTGAAGTATATGGCTATCATGACTAAGTGCTAGAATTTATAGTTAC
AGGCGGTGTCCTTTTAAATGTGGAAAGGCTTTTAAAAATTTTTAAACTGGACCTGTATTATCCTGAATACACTA
TTTTGAAAATTTTAAAGAAAAA

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FIGURE 2296

VRGVRAATAAAVAATAASGLSRREAGGRAGAAAAVVRPPGRKCGRCRRLANFPGRKRRRRRRRKGLGATTGGCGEA
VSSLHPAPHSPSSVRPAGRRARRQRRGAGSAERPMSGAGEALAPGPVGPQORVAEAGGGQLGSTAQGKCDKDNTK
DITQATNSHFTHGEMQDQSIWGNP SDGELIRTQPQLPQLQTS AQVPSGEEIGKIKNGHTGLSNGNGIHHGAKHG
SADNRKLSAPVSQKMRKIQSSLSVNSDISKSKVNAVFSQKTGSSPEDCCVHCILACLFCEFLTLCNIVLGQAS
CGICTSEACCCCGDEMGGDCNCPDMDCGIMDACCESSDCLEICMECCGICFPS

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FIGURE 2297A

ACTGCCGTGCCGGACCCCCGAGCCGGAGCCGAGCGCGCCGAGGCCGGGGCCATGGAGAAAGCGCGGCCGCTGTGG
GCCAACTCGCTACAGTTTCGTGTTTCGCTGCATCTCGTACGCCGTGGGCTGGGCAACGTGTGGCGATTCCCCTAC
CTGTGCCAGATGTACGGCGGAGGTAGTTTCCTGGTCCCTACATCATCATGCTTATCGTGGAGGGAATGCCGCTC
TTGTACCTGGAACCTGGCTGTGGGGCAGCGCATGCGGCAGGGCAGCATCGCGCCCTGGAGGACCATCAGCCCCGTAC
CTCAGTGGTGTTCGGGGTCGCCAGCGTGGTGGTCTCTTTCTTCTCTCCATGTACTACAACGTATCAACGCCTGG
GCCTTCTGGTACCTCTTCCACTCCTTCCAGGATCCCCCTGCCGTGGTCTGTCTGCCCACTGAATGGTAACCACACG
GGCTACGATGAGGAGTGGGAGAAGGCGTCTCCACACAGTACTTCTGGTACAGGAAAACCTCAATATCTCGCCG
TCCCTCCAGGAGAACGGGGGTGTGCAGTGGGAGCCGGCGCTGTGCCTCCTCTGGCCTGGCTGGTGGTGTACCTG
TGCATCCTGCGTGGCACCAGTCCACTGGCAAGGTGGTGTATTTACGGCGTCACTGCCCTATTGCGTGCTCATC
ATCTACCTCATCAGGGCCCTCAGCTCCACGGAGCCACCAATGGCCTCATGTACATGTTCACTCCCAAGATAGAG
CAGCTGGGCCAACCCCAAGGCCCTGGATCAATGCAGCCACCAGATCTTCTTCTCACTTGGCCTGGGCTTCGGCAGC
CTGATCGCCTTCGCCAGCTACAATGAGCCATCCAACAATGCCAGAAGCACGCCATCATCGTGTCCCTCATCAAC
AGCTTCACCTCCATATTTGCCAGCATTGTACCTTCTCCATCTATGGCTTCAAGGCCACCTTCAATTATGAAAAC
TGCTTGAAGAAGGTGAGTCTGCTGCTGACCAACACTTTTGACCTTGAAGATGGCTTTTTTGACAGCCAGCAACCTG
GAGCAGGTGAAGGGCTACCTCGCATCTGCCTACCCAAGCAAATACAGCGAGATGTTCCCGCAAATCAAAAACCTGC
AGCTTGAATCGGAGCTAGACACGGCCGTCCAGGGCACTGGCCTGGCATTTCATCGTCTACACAGAGGCCATTAAA
AACATGGAGGTGTCCAGCTGTGGTGGTGTCTACTTCTTCATGCTGCTGATGCTGGGCATTGGGAGCATGCTG
GGGAACACAGCGGCCATCCTCACCCCTCTGACAGACAGCAAGATCATCTCCAGCCACCTGCCCCAAGGAGGCCATC
TCAGGTCTGGTGTGCCCTTGTCAACTGTGCCATTGGCATGGTGTTCACGATGGAGGCTGGGAACCTACTGGTTTGAC
ATATTCAACGACTACGCGGCCACACTGTCCCTGCTGCTCATCGTGTGGTGGAGACGATTGCCGTGTGTACGTG
TACGGGCTGAGGAGATTTGAAAGTGACCTTAAGGCCATGACCGGCCGAGCTGTGAGCTGGTACTGGAAGGTGATG
TGGGCTGGCGTAAGCCCACTGCTGATTGTGACGCTCTTTGTCTTCTACCTGAGCGACTACATCCTCACGGGGACC
CTGAAGTATCAAGCCTGGGACGCCTCCCAGGGCCAGCTCGTGACCAAAGATTACCCGGCCTATGCACTGGCTGTC
ATCGGGCTGCTTGTGGCCTCCTCCACCATGTGCATCCCCCTGGCGGCCCTGGGGACTTTTGTTCAGCGTGCCTC
AAGAGGGGAGACGCAGACCCCGTGGCCTTGAGATGTGGGCTTCCAGCCGCTCACGGTTTTACAGATACTATTTAC
AGGCGGAAACTCCTCGGCTGCTTTTTCAAATGCTTAAGCCAGGAGTGTCTAGCCCATCAACTTCTGAGTGTCTA
AAGAAGATGAGGAAGGTGTGCAGGAAGAAAACCTCCCTTGGGAGAACGCACACCCTCCCGTGGTGGCTGTCTCTC
CTGTACCTGCCTCCTCATCATGGAAGGGGTGGGCTATGAAAGCCGGTCTCAAAGATAACTGCATCCTTCATT
CAGGAAGCCCTAGAATTAGGGCACATTGCAAACTGAAATATGACTATAATTCTTATGGGACCAAAATTAAGCAA
TTTTTGTTTTTGGCTGAAGAGACACCAAAATATTAGAGGACAAATATTTTAGATCCATTTAAGGAGTTTTGAAG
TGCCTAAGATGACCTATTTGTGAGTGGTGCAAAATTAATTCTCTTCTTTTTGAGTTGTAGTGAATATGCAATTT
CTGTGTTCCCTTCCACCCTTTAAATCTTAGGATGACAAGTTATAAGAAAGAAGATCTTTGTCTGGGACCCCCA
AAGGGATCCTTTCTCTAAGGTCTCTGACAGTGGGTCCAGGACCAGACCTCTCTACAAAAAATTGCCCAACTACA
GTTTGCAACCCCAAAACCACATTAGAAGTCTGTGCAGACATCCCTCCGTGGTGTGTGTCTTGGTGCATTGGAAG
GAGTCAGGAGCCACTGTGAGGTGAGAATGAAAGTGGATCTCAGCTGGGCACGGTGGCTCACGCCTGTAATCCTAG
CACCTTGGGGGTCAAGGTGGGTGGATCACTTGAGGTGAGGAGTTTGAGGCCAGCCTGGCCAACATGGCGAAACCC
CATTTCTACTAAAAATACAAAAAATTAGCTGGGAGTGGTGGCATAGGCCTGTAATCCAGCTACTCTGGCTGCT
GAGGCACAAGAATCATTTGAACCTAGGAGGTGGCGGTTGCTGTGAGCCAAGATCATGCCACTCCACTCCAGTCTG
GGCGACAGAGCAAGACTCTGACTCAAAAAAAAAAAAAAGTGGCTCTGACTTTCCCATAGGCTTAATATTACATTT
GGACATCGTGGCCAACCTCTATCAAGACCACAAATACCACCTTACAATTAATTTTAAATTATTCATCTGTACATAGT
TTTCTAAATGTATATAATTCAAACAGAGCATCTGTAACTGAAGACACACCATATCTATGATATCGCATTAGTC
CATGTGGGGAAAAGAAAGATCAGATTGTTACTGTGTCTGTGTAGAAAAGGAAGACATAAGAAACTCCATTTTGAT
CTGTACTAAGAAAAATTGTTTCTGCTTTGAGATGTTGTTAGCCTATAACTTTAGCCCCAACTCTGTGCTCACAGA
AACATGCGCTGTAATGAATCAAAGTTTAATGGATTAGGGCTGTGCAGGATGTGCCTTGTTAACAATATGTTTGC
AGGCTGTATGCTTGGTAGAAGTCATCGCCATTCTCCATTCTCGATTAAACCAGGGACACAATGCACAGCAGAAAGC
TGCAGGGACCTCTGCCAAGAAAGCCTGGGTATTGTCCAAGGTTTCCCCCCTGAGACAGCCTGAGATATGGC
CTCATGGGAAGGGAAAGACCTGACTGTCCCCAGCCGACACCTGTAAAGGGTCGGTGTGAGGAGGAATAGTGA
AGGAGGGAGGCCTCTTTCAGTTGAGATAAGAGGAAGGCTTCTGTCTCCTGCTTGTCCCTGGTAATGGAATGTCT

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FIGURE 2297B

CGGTGTAAAGCTGACCATTCCCATTCGTTCTATTCTGAGATAGGAGAAAAACGCCCTGTGGCTGGAGGTGAGATA
TGCTGGCAGCAATACTGCTCTGTTACTCCTTGCTACACTGAGATGTTTGGGTAAAGAGAAACATAAATCTAGCCT
ACGTGCACATCTGGGCACAGTACCTTTCCTTGAACCTATTTCGTGATACAGATTCCCTTGCTCACATGTTTCCCTG
CTGACCTTCTTCCCACCTGTTGCCCTGCTACACTCCCCCTCGCTAAGACAGTAAAAATAATGATCAATAAATACTG
AGGGAACCTCAGAGGCCAGCGCCGGTGCGGGTCTCCACATGCTGAGCGCCGGTCTGGGCCCACTGTTCTTTCTC
TATACTTTGTCTCTGTGCTTATTTCTTTCTCAAAAAAATTTTCTTTTAACTGCAATAAAGTAGGTCGTT
ACCCCTAAAGTGAGCGAGTCCCTTCCTGCTCTAACGTCCAGTGCTTCCTTGAGATCATGGAATTCTGGAGAGTTT
CTGTGGATATATTTGCACAGATATCTTTGAAGACACAAACACTCACCTGGGACGTTGGCCGGAGATGTCTTTTAA
TTTTTGTGCTGTAAAAATCTCTTACAGCAAAAAATAGGCTTTAGAAAGGTCTTCTACTGTCTTCAGCAACCATCTC
ATCTTCCAGCTTCACCTGATTGTCCAGTTATCATACATTGACTTTCAAATGTATGAACCAGCATGTACCCCATG
GATTTAATCTTATCTACCCCGTGATTCAATCTTCTTATCAGAAGGTTCTTTTATGTCAAAAAACCTGCTGTCAA
GGCTTGAAGAGCCGGCACACTCAATGGCAAACACAGCACCGAGTCTGCTCTGAATCCTGGAGGATCTGGCCCTCC
TCTCAACCCCACTCAGATCACCGTCTTACAACCTCAGGGCCACCTGGGATCAGTCATCAGTCAGGGTGCCTAAG
CCTTGAATACCAGGTAGCCGCAGGAGTGAAGATAAATGTCTTAGATCATTACCTTATTCAGTGTCCCACTT
GCAGCGCATTCCAACCACCTGGGAGCATTAAAACTCCAGATGCCACACCACACCCTGGGGCCACCCATCAGAC
CTTCTGGAAGCAAGACCTGGGCCTCCATGGCCCCAAAACTCCCTAGGTGATCCGATGTGCAGCCAAATTTGAGA
GGCCCCATTTAAAAAGAAAGAACATGGGTGGTACATTGAGGAGTATTTACATTTTATAAAATGACTTAAAAATT
TGAAGGCATTTTGTGACATTTCCAATTATATGGAAGAGTTACTTCTACGGAATAGTTTTTGTCTCATGGAACCAA
ACAGATGAAGCACCCTGTACAGAATAATGTGCTCCAGATGAAAATGTCTCGTTTCTGTGAATTTTCATGAAGAG
CAGAACATTTCTCAAGAATCCTCTTGAGCCAGTAATCAATCCTGTCTCAAAAAATGTTCTTTGCCATTTCTAGA
TACTGCACAAAAGTGGCCATGTGACATTTGTCCACCCACCCTCCAATAAGCTGGAGCGACAAAGGGACATTCCA
TCCCTGTACCCCTTAGTGGTAGCCATGACACGATGGCCAGATCATGGACTCCGGAAAGCTTTCTGTTTTTACTGGA
AACATAGCAAACCTTGATTTAGCTCCAAGAAATTGAGTAGGGAAATATTTGTTTTTTAGCAATTGTCATAGTAA
TAAACTCTAAGCAAATGTGTGTAC

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FIGURE 2298

MEKARPLWANSIQVFACISYAVGLGNVWRFPYLCQMYGGGSFLVPYIIMLIVEGMPLLYLELAVQORMRQGSIG
AWRTISPYLSGVGVASVVVSFFLSMYNVINAWAFWYLFHSFQDPLPWSVCPLNGNHTGYDEECEKASSTQYFWY
RKTLNISPSLQENGQVQWEPALCLLAWLVVYLCILRGTESTGKVYFTASLPYCVLIIYLRGLTLHGATNGLM
YMFTPKEQLANPKAWINAATQIFFSLGLGFGSLIAFASYNEPSNNCQKHAIIVSLINSFTSIFASIVTFSIYGF
KATFNYENCLKKVSLLLTNTFDLEDGFLTASNLEQVKGYLASAYPSKYSEMFPQIKNCSLESELDTAVQGTGLAF
IVYTEAIKNMEVSQLWSVLYFFMLLMLGIGSMLGNTAAILTPLTDSKIISSHLPKEAISGLVCLVNCAIGMVFTM
EAGNYWFDIFNDYAATLSLLLVETIAVCYVYGLRRFESDLKAMTGRAVSWYWKVMWAGVSPLLIVSLFVFYL
SDYILTGTCLKYQAWDASQQLVTKDYPAYALAVIGLLVASSTMCIPLAALGTFVQRRLKRGDADEVA

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FIGURE 2299

GAGAGATGCTGCCGCTGCTGCTGCCGCTGCCCCTGCTGTGGGCAGGGCCCTCGCTCAGGATGCAAGATTCCGGCT
GGAGATGCCAGAGTCCGTGACGGTGCAGGAGGGTCTGTGCATCTTTGTGCACTGTTCCGGTCTTCTACCTCGAGTA
TGGCTGGAAAGATTCTACCCCTGCTTATGGCCACTGTTCCGGGAAAGGGTCAGTGTAGACCAGGAGACTCCATG
GCCACAAACAACCTCAACTCAAAAAGTCAGAAGGAGACCCAGGGCCGATTCCACCTCCTCGGTGATCCCTCAAGG
AACAACTGCTCCCTGAGCATCAGAGACGCCAGGAGGAGGGACAACGGTTCATACTTCTTTTGGGTGGCGAGAAGA
AGAACAAAATTTAGTTACAAATATTTCCCGCTCTCTGTGTATGTGACAGCCCTGACCCACAGGCCCGACATCCTC
ATCCCGGAGTTTCTAAAGTCTGGCCATCCCAGCAACCTGACCTGCTCTGTGCCCTGGGTCTGTGAGCAGGGAACA
CCCCCATCTTCTCCTGGATGTGAGTGTGCCCCACCTCCTGGGCCCCAGGACCTCCACTCCTCAGAGCTCAGG
ATCATCCCACGGCCTCAGGACCACGGCACCAACCTCATCTGTGAGGTGACGTTCCCGGAGCTGGTGTGACCACG
GAGAGAACCATCCAGCTCAGTGTCTCCTGGAAATCAGGAACCGTGGAGGAGGTGGTTGTTTTGGCCGTGGGGGTA
GTGGCTGTGAAGATCCTGCTTCTCTGCTTTGCTCATCATCCTCAGTTTCCACAAGAAGAAGCGGTGAGGGCA
GTGGAGGTTGAGGAGAATGTATATGCTGTGATGGGTTAATCTCTCAGGCCCTCCAGACTGTACTTCCAGATGTCTC
CTCATCCAGTTTCTCCACAGTCTGAATGGCCATGTTTCTTCTTATTGCTGGAGAATGAAGTGCAAATGCCACTG
CCTGGACTGAAGGCCTTTCACGATCTGTCTTCTGCTGGACTCTGCTCCTGATCCCCCTTCTCCTTGCATCACCCG
AAGTCTCCCTACACCCACCAGGCCAAGCCCTCTGTGATTCTGAGACTTTGCATGTGTAGTTACTTCTCCTGAAAT
GGCCTTCTCCCATTCCTGCCAATCCAGGTCCTTATCATCCTTCAGGTTGTCTTAAATGTATCCAGGTGTGTG
TATTTTATGTAATCCTTGTATGATATTAAGCGGAGATGIGGCATTTGTTTATTAAATTTGTAGACATATTAGTA
ACCATACTGAATACATATAATGACTATGTGCCAGCATTTCCGTATGTGCAAGAAGTTCATCAATAGATATAGACT
CAAAGAGCTCTGTGATCAAGCTGTTGTTCTGAAGAGCAGAAGGATAC

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FIGURE 2300

CAAGCTTATGCATGCGGCCGCTGAATGGAGGCCAACATGCCGAAGCGGAAGGAGCCCGGCAGGTCTCTCCGCATC
AAAGTCATCTCCATGGGCAACGCCGAAGTGGGGAAAAGCTGTATTATAAAGCGATACTGTGAGAAAAGATTTCGTG
TCTAAATACCTGGCAACAATTGGAATTGACTATGGAGTCACAAAGGTACCGTCAGAGACAGAGAAATCAAAGTT
AACATCTTTGATATGGCTGGACATCCCTTCTTCTATGAGGTTTCGAAATGAGTTTTACAAGGACACACAGGGTGTG
ATACTGGTCTATGATGTGGGCAGAAAGACTCCTTTGACGCCCTTGATGCGTGGCTGGCAGAAATGAAGCAAGAG
CTTGGACCTCATGGAACATGGAAAATATTATATTTGTAGTTTGTGCCAACAAAGATTGATTGTACCAACATCGC
TGTGTAGATGAAAGTGAAGGACGTCTTTGGGCTGAAAGCAAAGGGTTTCCTGTACTTTGAAACTTCAGCACAACT
GGAGAAGGCATTAAATGAGATGTTCCAGACCTTTTATATATCCATAGTTGATTATGTGAAAATGGCGGAAACGC
CCTACCACCAATAGCAGTGCTAGTTTACCAAAGAACAAGCAGATGCCATTGCGAGAATTCGAAATAGTAAAGAC
AGTTGGGACATGCTGGGAGTCAAACCTGGGGCTCAAGGGATGAAGTCAATAAAGCGTATCGGAAACTTGCTGTG
CTTCTTCACCCTGACAAATGTGTAGCACCTGGCAGTGAAGATGCCTTCAAAGCAGTTGTGAATGCTCGGACAGCC
CTCCTGAAAAACATCAAGTAGAAAGTACAGAAAAAGCCACATGTGGGACTCAAATGCAAACAGACTTTCCCTAG
AGGTGAAATAACCAACGTGGAGTTTTCTTCCCAGAATCTCACTGCTCTTTTCATTTCATGTGTGTGTCATTTGTAT
ATCAGTAATTCAGGTACCCATTTTCATAGACATTTTACTGAGAAATGACCTGCATTGTATGAAGTGAAGTGAAGCG
TCACACCCTGTACTTCATTTCATATTTCTAGATAATTCTGAATTTTTTCTCATTTCGTAGCTCTGTAATTATAG
TATCACTTAGACATTTCACTTGGGGAAATCCACAAGTTTCTGGAGGGAGGGAAGAGAGGACAAGAGGACCCTTT
CACTTTTTCTTTTTTACGGAATTCATCATCAGAGAAGAAAATAACAAAAATGGAAGCAAACAACATCAGAACCCC
TGTAAGTTTGGTGTGACCTTACAGACAAGTTGCTGCTTTTACAATGAGTTCCTTAGGTGGTATTTTAACCCATCG
ATCTATAATGATGACTCTTGGCAGCCCTTTGGGAGTTTGTAAAATGAGGTGATACAGTTCTGAATTGAGCATTCC
TTTATGATATTCACTCTGTTCTCTTCTGCAGCCACCAGTGGGAGAGACAAGCCAGTCCTAAGAGAAAAGGTGGT
GGCAGCCACAAATTCTAGGTACACTGGCTGCTGCCTATCCTGTCCCTGGATCTGAGGCCTTTCCCTTGCCATAGA
AATGGTTGCTGGTAGCAGTAGAGAGCACTGTGCACCTGGGAATGAGGAATCAGGCCCAAGACAGAAGTACTTGG
AGGAGCCAGCTGCAGTAGTATCCGCCTGTAGTCCAGCTACTCAGGAGGCTGAGACAGGAGGATTGCTTAAGCCC
AGGAGCTCAAGTCCCACCTGGGCAACATAGTAAGATCTTGTCTCTTAAAAAAAAAAAAAAAAA

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FIGURE 2301

MEANMPKRKEPGRSLRIKVISMGNAEVGKSCIIKRYCEKRFSKYLATIGIDYGVTKVHVDRDREIKVNIFDMAGH
PFFYEVRNEFYKDTQGVILVYDVGQKDSFDALDAWLAEMKQELGPHGNMENIIFVVCANKIDCTKHRVDESEGR
LWAESKGFLYFETSAQTGEGINEMFQTFYISIVDLCENGKRPPTNSSASFTKEQADAIRRIRNSKDSWMLGVK
PGASRDEVNKAYRKLAVLLHPDKCVAPGSEDAFKAVVNARTALLKNIK

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FIGURE 2302A

ATAGTCACCAGAAGCTGGAAGAGTCAAAGGACACATTCTCCCTCAAGCCCCAGTGGGAGCACGGCCCAGCTGGA
TTTTGGACTTCTGGCCTCCAGAAGTAGACAGGGCTCACGGTGTACCCAGGGTGAATACAGTGGTGTGATCAT
AGCTCACTGCAGCCTGGAATTCCTGGGCTCAAGCAACCCTGCCACCTCAGCCTTCCAAGTAGCTAGGACTACAGA
ACATCCATGATAGCAGTCTTCTGTAAATCGAACTTTTCAAGAATTCTCTGAAGGAACCAAGTAGGATATTCTTAC
ATCATGACTTAATGTGAATGCAAGAACAAGAAATAGGTTTTATCTCTAAATATAATGAAGGGCTGTGTGTAAACA
CTGACCCTGTCTCAATTCTAACAAGCATTTTAGACATGAGTTTACATCGGCAAATGGGTTTCAGATCGAGATCTTC
AGTCCTCTGCTTCATCTGTGAGCTTGCCTTCAGTCAAAAAGGCACCCAAAAAAGAAGAAATTTCAATAGGCTCCC
TGTTTCGGAGGAAAAAGATAACAAACGTAAATCAAGGGAGCTAAATGGCGGGGTGGATGGAATTGCAAGTATTG
AAAGTATACATTCTGAAATGTGTACTGATAAGAACTCCATTTTCTCTACAAATACCTCTTCTGACAATGGATTAA
CTTCCATCAGCAAAACAAATTGGAGACTTCATAGAGTGCCTTTTGTGCCTTTTGGCGCATTCTAAAGACAGATTTT
CTGATATAATGACTTGTCTACAGATCTTGTGTGGATTGCTTACGACAATATTTAAGGATAGAAATCTCTGAAA
GCAGAGTTAATATTAGTTGCCAGAAATGACTGAGCGGTTTAAATCCCCATGATATTTCGCTTGATATTAAGTGATG
ATGTCTTGATGGAATAATACGAGAATTTATGCTTAGACGGTGGCTTGTTCAGATCCTGATTGTAGGTGGTGTCT
CAGCTCCAGACTGTGGATATGCTGTGATAGCATTGGATGTGCCAGCTGTCCAAATTAACCTTGTGGCGAGAGG
GCTGTGGAACAGAGTTTTGCTACCCTGTAAACAGATTTGGCACCCCAACCAGACCTGTGATGCTGCTCGACAAG
AGAGAGCCCAGAGCTTACGTTTGAGAACTATACGTTCTTCATCCATTAGTTATAGTCAAGAGTCTGGAGCAGCAG
CTGATGATATAAGCCATGTCCACGATGTGCTGCTTATATAATAAGATGAATGATGGGAGCTGCAATCACATGA
CATGIGCTGTTTGTGGTTGTGAGTTTTGTGGTTGTGTATGAAAGAAATCTCAGATTGCATTATCTAAGTCCAT
CAGGATGTACTTTTTGGGGGAAGAAACCCTGGAGCCGAAAGAAGAAATATTGTGGCAACTGGGAACACTGGTTG
GTGCTCCTGTCTGGAATCGCTTTAATAGCTGGCATTGCTATTCTGCAATGATTATTGGCATTCTGTGTATGTGG
GCCGCAAGATTACAATCGCTATGAAGGCAAGGATGTTTCAAAGCACAAACGGAATTTGGCCATAGCAGGTGGTG
TAACGTTGTCTGTAATCGTGTCTCCAGTAGTAGCTGCAGTACTGTAGGTATCGGTGTTCTATTATGTTAGCTT
ATGTCTATGGCGTAGTTCCAATTTCTCTTGTGCAAGCGGAGGTTGTGGAGTCTCAGCAGGCAATGGAAGGAG
TTAGGATTGAATTTGATGATGAAATGATATAAATGTTGGTGGAACTAACACAGCTGTAGACACAACATCAGTAG
CAGAAGCAAGACACAACCCAGCATAGGGGAGGGAAGTGTGGTGGGCTGACTGGCAGTTTGAGTGCAAGTGGA
GCCACATGGATCGAATAGGAGCCATCCGAGACAACCTGAGTGAACCGCCAGCACCATGGCACTAGCTGGAGCCA
GTATAACGGGGAGTCTGTGAGGAAGTGCCATGGTAACTGTTTAAACAGGTTGGAAGTACAAGCAGATGTACAGA
AAGAACGGTACAGTCTAAGTGGAGAATCTGGCACAGTCAGCTTGGGAACAGTTAGTGATAATGCCAGCACCAAG
CAATGGCAGGATCCATTCTGAATTCCTACATCCCATTGGACAAAGAAGGCAACAGTATGGAGGTGCAAGTAGATA
TTGAGTCAAAGCCATCCAAATTCAGGCACAACAGTGAAGCAGTAGTGTGGATGATGGCAGTGCCACCCGAAGTT
ATGCTGGCGGTTTCATCCAGTGGCTTGCCTGAAGGTAAATCTAGTGCCACCAAGTGGTCCAAAGAAGCAACAGCAG
GGAAAAATCAAAAAGTGGTAACTGAGGAAAAAGGGTAACATGAAGATAAATGAGACGAGAGAGGACATGGATG
CACAGTTGTTAGAACAAACAAAGCACGAACCTCAAGTGAATTTGAGGCTCCATCCCTCAGTGACAGTATGCCTTCTG
TAGCAGATTCTCACTCTAGTCATTTTTCTGAATTTAGTTGTTCTGACCTAGAAAGCATGAAAACCTTCTTGTAGTC
ATGGTTCCAGTGATTATCACACCCGCTTGTCTACTGTAAACATTCTTCTGAGGTAGAAAAATGACCGTCTGGAAA
ATTCCCCACATCAGTGTAGCATTCTGTGGTTACCCAACTGCTTCTGTCAGAAGTTTCACAGTTGAATCATA
TTGCTGAAGAACATGGTAACAATGGAATAAAACCTAATGTTGATTTATATTTTGGCGATGCACTAAAAGAAACAA
ATAACAACCACTCACATCAGACAATGGAATTAAGTTGCAATTCAGACTGAAATTTAGGCCCATAAATGCTGCA
GAATAATTACCACTGTACAACCGTGTGGAGCTGGTTGAACCTACATGTGACTACTTAAGTTTCAGGTTACCAGC
AAAAGCCGGGTTTCATTATCATAATGCAGATACATTTTCTGTGTTTCAGCAAGGCATTGTGTGTCTGTGGATCTT
AGTTACCAACTATGAAGTGAAGGCTTTAAAGTGCATTATTTAAGGATAATAAATTTGAAGAGCAAAGCATGT
TTTGTGTGTTTGGCACAAAACATTGCTTGAAGCACATACTTAGATAGAAATGGTCTTAATTTATATAATCAATA
TAAATACTAATGCAATTCACAGCATTCAAATGAAGAAAACCTTGAGGCTTTAGGGATAAGTGGTTAGTGATATT
TTATTGAAACCACTAAAGAGATAAGTTTAAAGAACTGCATAGGTTACTCTCAGTATATGATACTCTGTAACATT
TCTATTTATATCGGCATAAATTTCAATTTTTCTTCATATGCAATGTGGTTATATAAAGCTTAATGCAGCTCAT
TTGCTACCATTGGATACTTAGACACTTTGAGCAAGATTGTGGCAGTTTTTGCACAACTTTGAAATAGAAATACC
TGGTACTCTATCTTGTATTGTTGATGCCATCTTAGAGGAAAAATGTAAAGGTAAGTAATTAAGCATATGACA
GCAACAAATAAGATACATAAACTACAAAATAAGTCCATTAGGTTATAAGTATTACAAAAATCCACCTTCT

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FIGURE 2302B

CTAAGGGGAAGTTTGTACCCCATTGATTCTTGGTGCCTTTGGGATCGACTGGGTTTTAATGGCCTAGTTATTGA
GGATTTTGCTGTGTTGTTTTCCATGTCTTCTCTGGTCACCTTGGATTATATATAAAAAATACAGGAAATAGATAAA
CATGAATGTGATTAATAATGCTGAAAAAGTATTAGCCTACCAAAGACACACTCAGGCTTTAGTGAATAACTTTAC
ATAACCTCAGTTTTTAACACATGCATATCTTCTCCAACCATGAAATCAAAGCACGGTGCAGAACTTGTACCAAGT
ACAAAAGGTCCATGTATGATTAGCATTATTTTCTTTTGCTTTTGTTTATGGACAATGTTTCAGCTGACATAAGCAG
AAGTTGGCCAAAATACTGCCTGTACTGTTAATTTCTGTATAATTCACTTAAATAAAAGCAGGTAAACCTCAATG
ATAGCAGTTAAAATGTTCTATCTTATGTATTTCTTTAAGTATTACCATTTATGGTGCTACTGAGCGTTTTCTTTT
GGTAAAAGAAAAATGCCATGGGCTGCAGTCTTCTTCCATCACTTTTCCCTACCAGGTCCATTAATATGCTTATA
ACACTAGTGCCAGTTATTTTATTTGATAATGCTTAAGGTATTTGTATATTTGTTTGCAATCCAATTTTGTTTAAT
AATGAGTGTGTAAACTGCATACGTTAAATAAATGTAAATACTAATGTACTGCTGCAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 2303

MQEQEIGFISKYNEGLCVNTDPVSILTSILDMSLHRQMGSDDLQSSASSVSLPSVKKAPKKRRISIGSLFRRKK
DNKRKSRELNGGVDGIASIESIHSEMCTDKNSIFSTNTSSDNLTSISKQIGDFIECPLCLLRHSDRFPDIMTC
HHRSCVDCLRQYLRIEISESRVNISPECTERFNPHDIRLILSDDVLMKEYEEFMLRRWLADPDCRWCPAPDCG
YAVIAFGCASC PKLT CGREGCGTEFCYHCKQIWHPNQTCDAARQERAQSLRLRTIRSSSISYSQESGAAADDIKP
CPRCAAYI IKMNDGSCNHMTCAVCGCEFCWLCMKEISDLHYLSPSGCTFWGKKPWSRKKKILWQLGTLVGAPVGI
ALIAGIAIPAMI IGIPVYVGRKIHNRYEKDVSKHKRNLA IAGGVTL SVIVSPVVA AVTVGIGVPI MLAYVYGVV
PISLCRSGGCGVSAGNGKGVRIEFDDENDINVG GTNTAVDTTSVAE ARHNPSIGEGSVGGLTGSL SASGSHMDRI
GAIRDNLSETASTMALAGASITGSLSGSAMVNCFNRLVQADVQKERYSLSGESGTVSLGTVSDNASTKAMAGSI
LNSYIPLDKEGNSMEVQVDIESKPSKFRHNSGSSSVDDGSATRSYAGGSSSGLPEGKSSATKWSKEATAGKSKS
GKL RKKGNMKINETREDMDAQLLEQQSTNSSEFEAPSLSDSMPSVADSHSHFSEFSCSDLESMTKSCSHGSSDY
HTRFATVNILPEVENDRLENSPHQCSISVVTQTASCSEVSQNLHIAEEHGNNGIKPNVDLYFGDALKETNNHSH
QTMELKVAIQTEI

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FIGURE 2304

GGCTCTGGGCATCACCAGCGGCCCCAGGGAAAAAGAAAGAAATGGGAAACAGCATGAAATCCACCCCTGCGCCTG
CCGAGAGGCCCCCTGCCAACCCGGAGGGACTGGATAGCGACTTTCCTTGCCGTGCTAAGTGACTACCCGTCTCCTG
ACATCAGCCCCCGATATTCCGCCGAGGGGAGAAACTGCGTGTGATTTCTGATGAAGGGGGCTGGTGAAAGCTA
TTTCTCTTAGCACTGGTCGAGAGAGTTACATCCCTGGAATATGTGTGGCCAGAGTTTACCATGGCTGGCTGTTTG
AGGGCCTGGGCAGAGACAAGGCCGAGGAGCTGCTGCAGCTGCCAGACACAAAGGTGGGCTCCTTCATGATCAGAG
AGAGTGAGACCAAGAAAGGGTTTTACTCACTGTCGGTGAGACACAGGCAGGTAAAGCATTACCGCATTTCCTGTC
TGCCGAACAACCTGGTACTACATTTCCCCGAGGCTCACCTTCCAGTGCCTGGAGGACCTGGTGAACCACTATTCTG
AGGTGGCTGATGGCCTGTGCTGTGTGCTCACCACGCCCTGCCTGACACAAAGCACGGCTGCCCCAGCAGTGAGGG
CCTCCAGCTCACCTGTACCTTGCCTCAGAAGACTGTGGACTGGAGGAGAGTGTCCAGACTGCAGGAGGACCCCG
AGGGAACAGAGAACCCGCTTGGGGTAGACAGTCCCTTTTCAGCTATGGCCTTCGAGAGAGCATTGCCTCTTACC
TGTCCCTGACCAGTGAGGACAACACCTCCTTTGATCGAAAGAAGAAAAGCATCTCCCTGATGTATGGTGGCAGCA
AGAGAAAGAGCTCATTCTTCTCATCACCACCTTACTTTGAGGACTAGCCAAGAACAGACACAAATGGTTTCATGCCC
AAAAGGAACAGAAGTTCCAACCTATTGCCTGGGATCTTGCGAAAAGCGAGGTTCCCTGATCCCTGGGAGCCTCACG
TATTTTAGAAGCCAAGAGAAGCCACATGGAGACTCAAATTCGCATCTTCTCTATCCACATCATGACCAAAGGAAC
CCCTCCCTGGTGTCTGATCAGGGCTGTGGCATCACAAAACATTGGATCATGACATGTGGGCGATGCTTGAAAA
GCCCAGCATGTATGTATGCACACATTGTGTGTGTGGGAAGGACAAAGCCACTCTCACAAGAAAGGGCACCAGGAC
TGCTCTCAAGGAACCTGGACCTGTCCAGACAGTTACACTCCAAGGTCATTGGAGAGAACTTCTGTATGGGCAAGC
CTGAGAGGGAGAGGAAACAAAAGCTGTGTCTTGGCAGAAGGCTCGGGTTTGAGATGGGTGCCCTGAATGGAAC
ACTTTAACTAATCCATAGGGACTTCTGGTATGCTTTCTCTCTTTTAAAGGAACTTCGTGACACTAAACATTAG
CCCAAAGGACTTCTTAGCCTTCAATTGGGAGATACCTTTGGTCTGCTCCTGCACCAAAGCCATATGGGTGGAAGT
CAGTTGGCCTCCCTGGTTCTGCAGAGGGCCAGAAGAATGAGAGAGAGGAAGACTGCTGGCAGGGAAATCGAGGAG
GCGAGACTAGAACTGCACCAGCTTCCCTGATGTCTGCAGCCATGGCTTTGCAGCGCAAACAGAACTTCTCTGGGA
TGCTGGGATTCTTGCTGTATGAATGCATCAAGTATTCAATTTATTGCCCGAATAGGCATTGCATTAAGTCTCTG
TTAGGTGTCAGGCAAGCCAAAAAAGATGCTAAGTCCTAACCCCAACAGAAAGTGTTCACAGTGTAGA
CGGGAAAAATGTATAACAATGTGTAAAAAGAGAAATCAGCTCATGGCTTAGGATGGAATTAGAGACAGGTGA
GGGACACTCAGGAGCTCATTTTCCAGCTGCTCTTCAGAGTGGGAAGGGCTGGCTGGATCGGGTAGGTAAGAATAGC
TGGATTTTTAGAAAAGAAATGGATACAGTCTAAAGAATTAACCTACCCGGTACTTTATTCTAAGAAGGGTCTGG
CATCCATATGAGGAAAAATGCTCAGCTCCAGGAAAGATGGGGAGTCCAAGTGGATTAATGATGTCATGCATAATT
TTAAGAGACAAGGGAGAAAACACAATGTATAGCCAGAGAAGGAGAAGCTCCCATCCAAATCCTACTAGGAAGAGA
GTGGGCTGCAGATGAATCTGTGACTCATGTTTCCCTGTTTCAAAGGGATCCTGGGGAAGGAGGGGAACATGCTTG
CAGTATCTCTCCCTGTCTGTCTGCTCACATAAGCATTCCGTCCATCTAAGCTCATCGTGCTACTGGTATGTGTAT
GTGCAGTTACACAGTTTCTGTATCATAAATCCTAGTGTGTTTATACAAGGAGACATCTGTGGTTTCCCCAACCG
TTCCAAAAGGCTATTTCAAAGGAACCAGCCACGTATGAGAAATGAATGTAACACTGTGGACATTGACTTCCCGC
ATAAGGCAGGGTGACCCCTGAACTCCAGATGTTTGCACAGTATCTTATGTGTTGTTTCCGTTGTGACGAATGT
GATTGGAACATTGGGGAGCACCCAGAGGGATTTTTCAGTGGGAAGCATTACACTTTGCTAAATCATGTATTTAT
TCCTGATTAAAAACCACTAATAAATATTTAACCTTGGC

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FIGURE 2305

MGNSMKSTPAPAERPLPNPEGLDSDFLAVLSDYSPDISPPIFRERGEKLRVISDEGGWWKAISLSTGRESYIPGI
CVARVYHGWLFEGLGRDKAEELLQLPDTKVGSFMIRESETKKGFYSLSVRHRQVKHYRIFRLPNNWYYISPRLTF
QCLEDLVNHYSEVADGLCCVLTTTPCLTQSTAAPAVRASSSPVTLRQKTVDWRRVSRLOEDPEGTENPLGVDESLE
SYGLRESIASYLSLTSEDNTSFDRKKKSISLMYGGSKRKSSFFSSPPYFED

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FIGURE 2306A

GCGCGCCTGTGCGGGTGGTGGGTGCGAGGACTGGACCCACGGGCCATTGTGCGCCCGCCGCGGCAGCCAGGACC
ATGTGGGTGAACCCGAGGAGGTGTGTGCTGGCCAACGCGCTGTGGATCACCGAGAGGGCCAACCCATACTTCATC
CTGCAGCGGAGGAAGGGCCACGCCGGCGATGGAGGCGGCGGCGGCGGACTGGCGGGCCTGCTGGTGGGTACCCTT
GATGTTGTGTTGGACTCCAGCGCCCGGGTCTGCTCCTTACCGAATCTTGTACCAGACTCCAGACTCCCTGGTCTAC
TGGACCATCGCCTGTGGTGGTTCCAGGAAAGAAATCACTGAACACTGGGAATGGCTTGAGCAAAATCTCTTGCAG
ACACTCTCCATCTTTGAAAATGAGAATGATATCACCACTTTGTGAGAGGAAAAATACAGGGCATCATTGCAGAA
TACAACAAAATCAATGATGTAAAGGAAGATGATGACACGGAGAAGTTTAAAGAAGCCATTGTGAAATTTTCATAGG
CTGTTTGGGATGCCAGAGGAAGAGAACTCGTCAACTATTACTCTTGCAGCTATTGGAAGGGGAAGGTCCCCCGT
CAGGGTTGGATGTACCTCAGCATTAAACCACCTTTGCTTTTATTCTTTTCTTATGGGAAGGGAAGCGAAACTGGTC
ATCCGGTGGGTAGACATCACTCAGCTTGAGAAGAATGCCACCCTGCTTCTGCCTGATGTGATCAAAGTGAGCACA
CGGTCCAGTGAGCATTCTTCTCTGTATTCTCAACATCAACGAGACCTTCAAGTTAATGGAGCAGCTTGCCAAC
ATAGCCATGAGGCAACTCTTAGACAATGAGGGATTTGAACAAGATCGATCCCTGCCCAAACCTCAAAAGGAAATCT
CCTAAAAAAGTGTCTGCTCTAAAACGTGATCTTGATGCCAGGGCAAAGAGTGAGAGATACCGTGCACCTTTCCGG
CTGCCCAAAGATGAAAAATTAGATGGCCACACAGACTGCACCTCTGGAAGTCCATTAAACAAAATGCACATTTTG
GGGAGATGTTTGTGTCCACAAATTACATCTGTTTTACCAGCAAGGAGGAGAAGTTATGTAGCCTCATTATCCCG
CTCCGTGAGGTGACAATTGTGAAAAGGCAGACAGCTCCAGTGTGCTCCCCAGTCCCTTATCCATCAGCACCCGA
AACAGGATGACCTTCCTATTTGCCAACTTGAAAGATAGAGACTTTCTAGTGAGAGGATCTCAGATTTCTTGCAA
CAGACTACTTCCAAAATATATTCTGACAAGGAGTTTGAGGAAGTTACAACAGTTTTCAGATGATGAGGTGTACTCT
CGACCCAGCAGCTCTGCTCTCCAGCCCCAGAGAAGCACGAGCTCTGATGCTGATGGAGAGCGCCAGTTTAAAC
CTAAATGGCAACAGCGTCCCCACAGCCACACAGACCTGATGACCATGTATCGGCGGCGGTCTCCCGAGGAGTTC
AACCCGAAATTGGCCAAAGAGTTTCTGAAAGAGCAAGCCTGGAAGATTCACTTTGCTGAGTATGGGCAAGGGATC
TGATGTACCGCACAGAGAAAACGCGGGAGCTGGTGTGAAGGGCATCCCGAGAGCATGCGTGGGGAGCTCTGG
CTGCTGCTGTGAGGTGCCATCAATGAGAAGGCCACACATCTGGGTACTATGAAGACCTAGTGAGAGAAGTCCATG
GGGAAGTATAATCTCGCCACGGAGGAGATTGAGAGGGATTTACACCGCTCCCTTCCAGAACACCCAGCTTTTCAG
AATGAAATGGGCATTGCTGCACCTAAGGAGAGTCTTAACAGCTTATGCTTTTCGAAATCCCAACATAGGGTATTGC
CAGGCCATGAATATTGTCACTTCAGTGTCTGCTTTATGCCAAAGAGGAGGAAGCTTTCTGGCTGCTTGTGGCT
TTGTGTGAGCGCATGCTCCAGATTACTACAACACCAGAGTTGTGGGTGCACTGGTGGACCAAGGTGTCTTTGAG
GAGCTAGCACGAGACTACGTCCACAGCTGTACGACTGCATGCAAGACCTGGGCGTGATTCCACCATCTCCCTG
TCTTGGTCTCTCACACTATTTCTCAGTGTGATGCCTTTTGAGAGTGCAGTTGTGGTTGTTGACTGTTTCTTCTAT
GAAGGAATTAAGTGATATTCCAGTTGGCCCTAGCTGTGCTGGATGCAATGTGGACAACTGTTGAAGTGAAG
GATGATGGGGAGGCCATGACCGTTTTGGGAAGGTATTAGACAGTGTGACCAATAAAGACAGCACACTGCCTCCC
ATTCCTCACCTCCACTCCTTGCTCAGCGATGATGTGGAACCTTACCCTGAGGTAGACATCTTAGACTCATCAGA
ACTTCTACGAGAAATTCGGAACCTATCCGGGCAGATTGATTGAACAGATGAGATTCAAACAGAGACTGAAAGTG
ATCCAGACGCTGGAGGATACTACGAAACGCAACGTGGTACGAACCATTGTGACAGAACTTCCTTTACCATTGAT
GAGCTGGAAGAACTTTATGCTCTTTTCAAGGCAGAACATCTCACCAGCTGCTACTGGGCGGGAGCAGCAACGCG
CTGGACCGGCATGACCCAGCCTGCCCTACCTGGAACAGTATCGCATTGACTTCGAGCAGTTCAAGGGAATGTTT
GCTCTTCTCTTTCTTGGGCATGTGGAACCTCACTCTGACGTTCTGGCCTCCCGCTTGTTCAGTTATTAGATGAA
AATGGAGACTCTTTGATTAACTTCCGGGAGTTTGTCTCTGGGCTAAGTGTGATGCCATGGGGACCTCACAGAG
AAGCTCAAACCTCTGTACAAAATGCACGCTTGCTGAGCCATCCTCTGATCAAGATGAACCAGATTCTGCTTTT
GAAGCAACTCAGTACTTCTTTGAAGATATTACCCAGAAATGTACACATGTTGTTGGATTGGATAGCAGAAGCAAA
CAGGGTGCAGATGATGGCTTTGTTACGGTGAGCCTAAAGCCAGACAAAGGGAAGAGAGCAAAATCCCAAGAAAAT
CGTAATTATTTGAGACTGTGACTCCAGAAAATAAATCTAAGTCAAAGAATGCAAAGGATTTACCCAAATTAAT
CAGGGGCAGTTTATTGAAGTGTGTAAGACAATGTATAACATGTTTACGGAAGACCCCAATGAGCAGGAGCTGTAC
CATGCCACGGCAGCAGTGACAGCCTCCTGCTGGAGATTGGGGAGGTGCGCAAGTTGTTTCGTGGCCAGCCTGCA
AAGGAGGGCGGGAGCGGAGGCAGTGGGCCCTCTGCCACCAGGCATCCAGGCGTGCTCTTCCCAAGAAAGGG
CCAGGCCAGCCTTACGTGGTGGAGTCTGTTGAGCCCCTGCCGGCCAGCCTGGCCCCGACAGCGAGGAACACTCC
CTTGAGGACAAATGGAGGACATCAAGCTGGAGGACTCCTCGCCCCGGGACAACGGGGCCTGCTCCTCCATGCTG
ATCTCTGACGACGACACCAAGGACGACAGCTCCATGTCTCTACTCGGTGCTGAGTGCCGGTCCCCACGAGGAG

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FIGURE 2306B

GACAAGCTGCACTGCGAGGACATCGGAGAGGACACGGTCCTGGTGCGGAGCGGCCAGGGCACGGCGGCACTGCCC
CGGAGCACCAGCCTGGACCGGGACTGGGCCATCACCTTCGAGCAGTTCTGGCCTCCCTCTTAACTGAGCCTGCC
CTGGTCAAGTACTTTGACAAGCCCGTGTGCATGATGGCCAGGATTACCACTGCAAAAAACATCCGGATGATGGGC
AAGCCCCTCACCTCGGCCAGTGACTATGAAATCTCGGCCATGTCCGGCTGACACGGGCGCCTTCCCGGGGGAGTG
GGAGGAGAGGGAGGGGAGGGATTTTTATGTTCTTCTGTGTTGAGTTTTTTCTTTCTTTCTTTTAAATTAAATAT
TTATTAGTACCTGGCTTGAAGCCTAGTGTTCATAATGTAATTCAATGAAAACCTGTTGGAGAAATATTTAAACA
CCTCAATGTAGGTACATTACACTCTTGTTCGGGGAGGGGATTACCAGAATACAGTTTATTTCTGTAATTCTAA
AAAACAAAAAGATGAATCTGTCACTGATATGTGTGATTATAACTTATTAATCTTGCTGTTGAGCTGTATACATG
GTTTAAAAAATAGTACTGTTTAAATGCTAAGTAAGGCAGCAGTCATTGTGTATTTCAGGCTTTTTAAATAAAATTA
GAGCTGTAAGGAAAATGAAAAGCCACAAATGCAAGACTGTTCTTAAATGGAAGGCATAGTCAGCGAGGGTAAATC
CTATACCCTTTAGGAAGTATTAAAAATATTTTTAAGATTTGAAATATAATTCATAGAAGTCCTCTATTCAAAAT
CATATTCCACAGATGTTCCCTTCAAAGGGAAAACATTTGGGGTTCTAAACAGTTATGAAAGTAAGTGATTTTTTA
CATGATTCCAGAATAACACTTGTATTGACCAATTTAGACAGATACCAGACCAATTTGCATTTAAGAAATTGTTC
TGATTATTTACGTCAACTCATTAGAATTCAGTGAAAAGTAACAGTCTTTTGTACAGAGAATCTGAAAGTAGCAG
CAAAGACAGAGGGCTCATGACAGGTTTTTGCTTTTGCTTTTGCTTTTGTTTTGAAAGAGTAAAAGTACTGATGCT
TCTGATACTGGATGTTTAGCTTCTTACTGCAAAAACATAAGTAAAACAGTCAACTTTACCATTTCGTATTCTCC
ATAGATTGAAGAAATTTATACCACATATCGCATATGACCATCTTTCCATCAAATCAATGTAGAGATAATGTAAAC
TGAAAAAAAATCTGCAAGATAATGTAAGTGAATGTTTTAAAAACAGAACTTGTCACCTTTATATAAAAGAATAGTA
TGCTCTATTTCTGAAATGGATGTGGAAATGAAAGCTAGCGCACCTGCACCTTGAATTCTTGCTTCTTTTTTATTA
CTGTTATGATTTTCTTTTACAGATGTTGGACGATTTTTCTTCTGATTGTTGAATTCATAATCATGGTCTCAT
TTCCCTTGCTTCTTTGGAATATTTCTTTCAACACATTCCTTTATTTTATTATACATTGTGCTCTTTTTTAGCTA
TTGCTGCTGTTGTTTTTATTCTATTTACAGGATGATTTTTAACTGTCAAATGAAGTAGTGTAACTCAATA
GGCTAAATGTGAACAAATAAAATACAGCAAATACTC

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FIGURE 2307

NLCSLIIPLEVTIVEKADSSSVLPSPSISTRNRMTFLFANLKDRDFLVQRISDFLQQTTSKIYSDKEFAGSYN
SSDDEVYSRPSSLVSSSPQRSTSSDADGERQFNLNGNSVPTATQTLMTMYRRRSPEEFNPKLAKEFLKEQAWKIH
FAEYGGGICMYRTEKTRELVLKGIPESMRGELWLLLSGAIN EKATHPGYYEDLVEKSMGKYNLATEEIERDLHRS
LPEHPAFQNE MGIAALRRVLTAYAFRNP NIGYCQAMNIVTSVLLLYAKEEEAFWLLVALCERMLPDYYNTRVVG
LVDQGVFEELARDYVPQLYDCMQDLGVISTISLSWFLTLFLSVMPFESAVVVVDCFFYEGIKVIFQLALAVLDAN
VDKLLNCKDDGEAMTVLGRYLD SVINKDSTLPPIPHLHSLLSDDVEPYPEVDIFRLIRTSYKFGTIRADLIEQM
RFKQRLKVIQTLEDTTKRNVVRTIVTETSFTIDELEELYALFKA EHLTSCYWGGSSNALDRHDP SLPYLEQYRID
FEQFKGMFALLFPWACGTHSDVLASRLFQLLDENGDSLINFREFVSGLSAACHGDLTEKLKLLYKMHVLP EPSSD
QDEPD SAFEATQYFFEDITPECTHVGLDSRSKQGADDGFVTVSLKPDKGKRANSQENRNYLRLWTPENKSKSKN
AKDLPKLNQGGFIELCKTMYNMFSEDPNEQELYHATAAVTSLLEIGE VGKLFVAQPAKEGGSGGSPSCHQGIP
GVLFPKKGPGQPYVVESVEPLPASLAPDSEEHSLGGQMEDIKLEDSSPRDNGACSSMLISDDDTKDDSSMSSYSV
LSAGSHEEDKLHCEDIGEDTVLVRSGQGTAA LPRSTSLDRDWAITFEQFLASLLTEPALVKYFDKPVCMARITS
AKNIRMMGKPLTSASDYEISAMSG

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FIGURE 2308

ACCAACTAGAACTCCAATATAGTCTTCTGTTTTATGTCAATGCATTGCAATCAGATTCAGAATCCTAACAG
GTAAATTGGAGTCTACGAAAATTTATAATAATTGCTTCATGGACTCTGAGCTATAGTCTATATCTTAGTTTTTT
CAAACATTTTGACTATTTTGACCAAGCCAGCTTGCAGTACAGAAAAAGTGAAAAATGTTTCTCCTTCTGAATGC
ATTCTTACCACTTTGATTCTTTCTGTTTCTACTATCCATATAAAATACTTTTCTGACCCTTTTGTTAGACAAGGAA
AAGTTTCTTTGTTATTTTGTTTTGTAAATGTAAGGAATGAGACAGGCCAAACAGTGAAGATAAACAAATAGATC

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FIGURE 2309

AGAGGGAAAGCGAGAGGGAGACGGACGTTGAGAGAACGAGGAGGAAGGAGAGAAAATGGCGTCCACGGATTACAG
TACCTATAGCCAAGCTGCAGCGCAGCAGGGCTACAGTGCTTACACCGCCCAGCCCACTCAAGGATATGCACAGAC
CACCCAGGCATATGGGCAACAAAGCTATGGAACCTATGGACAGCCCACTGATGTCAGCTATACCCAGGCTCAGAC
CACTGCAACCTATGGGCAGACCGCCTATGCAACTTCTTATGGACAGCCTCCCACTGGTTATACTACTCCAAGTGC
CCCCAGGCATACAGCCAGCCTGTCCAGGGGTATGGCACTGGTGCTTATGATACCACCACTGCTACAGTCACCAAC
CACCCAGGCCTCCTATGCAGCTCAGTCTGCATATGGCACTCAGCCTGCTTATCCAGCCTATGGGCAGCAGCCAGC
AGCCACTGCACCTACAAGACCGCAGGATGGAAACAAGCCCACTGAGACTAGTCAACCTCAATCTAGCACAGGGGG
TTACAACCAGCCCAGCCTAGGATATGGACAGAGTAACCTACAGTTATCCCCAGGTACCTGGGAGCTACCCCATGCA
GCCAGTCACTGCACCTCCATCCTACCCCTCCTACCAGCTATTCTCTACACAGCCGACTAGTTATGATCAGAGCAG
TTACTCTCAGCAGAACACCTATGGGCAACCGAGCAGCTATGGACAGCAGAGTAGCTATGGTCAACAAAGCAGCTA
TGGGCAGCAGCCTCCCACTAGTTACCCACCCCAAAGTGGATCCTACAGCCAAGCTCCAAGTCAATATAGCCAACA
GAGCAGCAGCTACGGGCAGCAGAGACCCATGGATGAAGGACCAGATCTTGATCTAGGCCCTCCTGTAGATCCAGA
TGAAGACTCTGACAACAGTGCAATTTATGTACAAGGATTAAATGACAGTGTGACTCTAGATGATCTGGCAGACTT
CTTTAAGCAGTGTGGGGTTGTTAAGATGAACAAGAGAAGTGGGCAACCCATGATCCACATCTACCTGGACAAGGA
AACAGGAAAGCCCAAAGGCGATGCCACAGTGTCTTATGAAGACCCACCCACTGCCAAGGCTGCCGTGGAATGGTT
TGATGGGAAAGATTTTCAAGGGAGCAAAGTAAAGTCTCCCTTGCTCGGAAGAAGCCTCCAATGAACAGTATGCG
GGGTGGTCTGCCACCCCGTGAGGGCAGAGGCATGCCACCACCACTCCGTGGAGGTCCAGGAGGCCAGGAGGTCC
TGGGGGACCCATGGGTGCGATGGGAGGCCGTGGAGGAGATAGAGGAGGCTTCCCTCCAAGAGGACCCCGGGGTTC
CCGAGGGAACCCCTCTGGAGGAGGAAACGTCCAGCACCAGCTGGAGACTGGCAGTGTCCAATCCGGGTGTGG
AAACCAGAAGTTCGCTGGAGAACAGAGTGCAACAGTGTAAAGCCCCAAAGCCTGAAGGCTTCTCCCGCCACC
CTTTCCGCCCCCGGGTGGTGATCGTGGCAGAGGTGGCCCTGGTGGCATGCGGGGAGGAAGAGGTGGCCTCATGGA
TCGTGGTGGTCCCGGTGGAATGTTTCAAGAGGTGGCCGTGGTGGAGACAGAGGTGGCTTCCGTGGTGGCCGGGGCAT
GGACCCAGGTGGCTTTGGTGGAGGAAGACGAGGTGGCCCTGGGGGGCCCCCTGGACCTTTGATGGAACAGATGGG
AGGAAGAAGAGGAGGACGTGGAGGACCTGGAAAAATGGATAAAGGCGAGCACCGTCAGGAGCGCAGAGATCGGCC
CTACTAG

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FIGURE 2310

MASTDYSTYSQAAAQQGYSAytaQPTQGYAQTTQAYGQSSYGTYGQPTDVSytQAQTTATYGQTAYATSYGQPPT
GYTTPTAPQAYSQPVQGYGTGAYDTTATVTTTQASYAAQSAYGTQPAYPAYGQQPAATAPTRPQDGNKPTETSQ
PQSSTGGYNQPSLGYGQSNYSYPQVPGSYPMQPVTA PPSYPPTSYSSTQPTSyDQSSYSQNTYGQPSSYGQSS
YGQQSSYGQQPPTSYPPTGSYSQAPSQYSQQSSSYGQQRPMDEGPDLDLGPPVDPDESDNSAIYVQGLNDSVT
LDDLADFFKQCGVVKMNRKTGQPMIHIYLDKETGKEKGDATVSYEDPPTAKAAVEWFDGKDFQGSKLKVS LARKK
PPMNSMRGGLPPREGRGMPPPLRGGPGGPGGPGPMGRMGGRGGDRGGFPFRGPRGSRGNP SGGGNVQHRAGDWQ
CPNPGCGNQNF AWRTECNQCKAPKEGFLPPFPFPFGGDRGRGGPGGMRGGRGGLMDRGGPGGMFRGGRGGRGG
FRGGRGMDRGGFGGGRRGGPGGPPGFLMEQMGGRRGGRGGPGKMDKGEHRQERRDRPY

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FIGURE 2311

AGACGCGCAAGGGCGCCGATGGAGGCAGACTCGCCAGCGGGCCCCGGCGCCCCAGAGCCCCCTCGCGGAGGGAGCG
GCGGGCCGAGTTCTCCAGCCTGCTGCGCAGGATAAAAAGGCAAACTCTTCACCTGGAATATTTTGAAAACAATTGCC
CTGGGTCAGACGTTGTCTTGTGTATATGTGGGACAGCCATCACCAGCCAGTATTTGGCAGAAAGATACAAAGTG
AACACCCCCATGCTTCAGAGCTTTATCAATTATTGCTTGCTGTTTCCTAATTTATACAGTGATGCTGGCATTTCGA
TCAGGCAGTGATAACCTTTTAGTAATCTTGAAAAGAAAATGGTGGAAGTACATCCTGCTGGGACTAGCAGATGTG
GAAGCTAATTATGTGATCGTCAGAGCCTACCAGTACACAACCTCTAACCAGTGTCAGCTTTTGGATTGCTTTGGG
ATTCTGTGTTGATGGCTCTGTCAATGTTTATTCTTCATGCAAGATACAGAGTGATCCACTTCATCGCCGTGGCT
GTCTGTCTGTTGGGTGTAGGAACCATGGTTGGTGACACATACTAGCAGGGAGGGAAGACAATTACAGGGAGTGAT
GTATTGATTGGTGACATCTTGGTCCTTCTTGGGGCTTCCCTCTATGCCATTTCAAATGTTTGTGAGGAATACATC
GTGAAGAAGCTGAGCAGACAGGAGTTTTTAGGAATGGTGGGCCTGTTTGGAACAATTATCAGTGGTATACAGCTA
TTGATTGTGGAATATAAGGATATTGCCAGCATTTCATTGGGACTGGAATAATTGCCCTGCTGTTTCGTGGCATTTCGCC
CTGTGTATGTTTTGCCCTGTACAGCTTCATGCCATTGGTGATTAAAGTCACTAGTGCCACTTCCGTCAACCTGGGC
ATCTGACAGCGGACCTCTACAGCCTTTTGTGGACTCTTCTGTTTGGCTATAAGTTTTAGGACTCTACATC
CTGTCTTCACTGTCACTCATGGTGGGTTTATCTGTACTGCTCCACCCCTACTCGCACGGCCGAGCCGGCTGAA
AGCAGCGTGCCTCCAGTCACCAGCATTGGGATTGACAACCTGGGGCTGAAGCTGGAGGAGAACCTCCAGGAGACC
CACTCTGCTGTCTTGAGCTGAGAGAAGTGGCGCACCCATCCCCACCAGGATAAAGCAGAGCCTGCTGCCTGCT
GAGGGGACACTTGGGGAAATAGCAGACTCAGAATGGACACTCTACAACCCTGGGTGGATCCAGTGGTTAGGTTT
TAGAAAGGAACACTGAACAAAGTTCAAAGTAGAAATACCAAAATAGAGCAGAAACCAAGCTAAGAGTGTGTTTC
TGTGTTTGAGGACCAATATCTGTTTCGTGTTGAGGAGATGAGGTGCAGACTCCACACTGGGGTCTTAGAGGCACCG
GTGGGAAAGCAGGACTGGGGAGAGATCCAGGACTGAGCCAGCCTCAGGCCAGGGCGGGAAAGCAGGCTGTCCAGG
CTGGGCTTGGTGGTCAGGAACAGGGGCAGCTCAGCGTGGCTCTGGAGTACGTTTCTCTGTGATGCTTCAAGG
TTTTTTTTTTTTTTTTTTTTTGTGAGGACAGTTATTGTCCACAGGCCTTGGGTACAGATGAGGCCTCGGGGCTG
ACTGCACTGTGGCAGAAAACGGGTGGGTGAGCCCTTGAAAAGTCTTGAGATATAAGTGTGAGTACTATACAAGCAT
TAAACTGGAGTGCAGTAAACCTAGGAACCTTCCCAAAATTGTTTTTTGTTTGTGTTGAGATGCAGAGTCTAGAGT
GCAGTGGTGCAAGCTCAGCTTACTGTAACTCTGCCTCCTGGATTCAAGTGTAGTAGCTGGGATTACAAAAGCA
TGTGGCCCCACGCCAGCTAAGTTTTGTATTTTTTAGTAGACATGGGGTTTACCAGTGTGCCAGGCTGGTCTTG
ACCTCCCGACCTCAAGTGATCTGCCTGCCCCGACCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCACCGTGCCA
GGCCTGTTTTGTTGTTTTTGTAGAGAGATGGGGTTTCGCCATGTGCCAGGCTAATCTCAAATTCCTGAGCTA
AAGCGATCTGCCACCTCGGCCTCCGAAAGTGCTAGGATTACAGATGTGAACCACTGTGCCTGGCCTGTTGTTT
GTTTGTAAAAACATTTCTCCATCACTCATTCCAGGTCCCAGAGCAAACCTCTCTGCTCTCGGAGCCTGTGACA
CTGGCTATGTGCTCCACAGTTTCAGTCCCAGGTCTACTCTCCAACAGTTTTTCAGAGCTCCATATATATGTAGAT
GCCATCCTTTCTAAAACTTCTCAGACCTCCTGGAATATTCTTATGATCTCATTATTTAGCATCAGCTCAA
GAACTAAGTCTTAGTGACAGTATCACAACAAAGAAAAAGCTTTGTTTTTATAACTGGTAAAAACAAGAAAAGA
TTCTCATCAAAATGAAAATATAAAATTAATCATTCTCACCAAGAGTATGCCTGGGAGCCTCCAGCTGTTAAAA
GACAATGCTATTACTACTTCTTATCAAAAATCTGTAATGCCCTGTGATTTTTATGATACTTCTTCAATACAAAGT
GTTAATATGTGTCATCAGTATAATAACAACCAACAAAATGCCACTTTCAGAAAAGTATGTAAATTTTTTGTA
CAATGTAAAAAAGAAATGGGGAGTAAGTGTTACATCATTAAAGGCTTTGAATTCATGGAAAT

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FIGURE 2312

MEADSPAGPGAPEPLAEGAAAEFSSLLRRIKGLFTWNILKTIALGQTLSCICGTAITSQYLAERYKVNTPMLQ
SFINYCLLFLIYTVMLAFRSGSDNLLVILKRWWKYILLGLADVEANYVIVRAYQYTTLTSVQLLDCFGIPVLMA
LSWFILHARYRVIHFIHAVVCLLGVTMVGADILAGREDNSGSDVLIGDILVLLGASLYAISNVCEEYIVKKLSR
QEFLGMVGLFGTIIISGIQLLIVEYKDIA SIHWDWKIALLFVAFALCMFCLYSFMPLVIKVT SATSVNLGILTADL
YSLFVGLFLFGYKFSGLYILSFTVIMVGFILYCSTPTRTAEP AESSVPPVTSIGIDNLGLKLEENLQETHSAVL

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FIGURE 2313

CATTAAAAATAAAGGGCATTACCCCATATCATTCTCTGAGCTATACCAGTGGAGACACTGCCACTGATTCTCCAG
TGCATGTTGGACGTGCTGGGATGCCAGTAAAGGACAGTCCAAGGAAGGAGAGCCTACTCAGCTACCTGACTGGAA
GCTTCCCAAGCCTGCACAACCTCCTGGAAGGTACTCCTCAGAGAAGCAGTGCTGCTGTGAAAAGTAGCTCCCTAA
CGAGAACAGGAAATACAGTAGCCACTGATATGTTATCTGAACATCCCTTGCTATCTGAGCCATCATCTGTGAGTT
TCTATAATTGGATGTCAAATGCTGTGGGTAATCGAGGAAGTGTGTTACAAGAATCTCCTGTTACAAAATCAGGAC
ACAATAGTCTTCCACAGGTGTTGCACCCAATCTTCCAACAATACCCTCAGCCTCAGATTTCAACACTGTCTTGT
CTAGTGACCAAAATACTTTGGATGGGACACATTCTCAGCATAGCACCAGTCAGGATGATGTGGCAGGTGTAGAAG
AAGCAAACCAAGGGTTTCTGCTGTTGAGCTTGCTGATGCACAGGTTGTTTTCAAGCCTCTTCTGAGTCATACAG
GGATCCAGTCACAGGATACAATGCCATTCTGCTACCGAATGTACTTTGGAGAACACCTTTCATTTTCAGGGACTT
TGGACTGCCTCAGAGCAGATATTGTGGATTGAGACACAGCCAAAGAGAGAAAAAGGCAAAAGAGCAAGAAGGCAAG
GCCATGTGAATCTTCCCTCCACTTGAGTTCAAACCAGCATTAAATGTTGGGAACCTTTAGCATCAGTGCTGTTGTAA
TGGAAAAGTCCGTGTGCACCCCTCAGAACTCTACCAGTGCCCTTTCTTTTCATGATCTCAGCAAGCGGTATTATA
ACACCTTTTCACTGCAACTTTTACTATTTCTGTGCTCAATAAGCCAGCATGTAGATATGGCTTTGGTTTCGTCTTA
TTCATCAGTTTAGCACAATGATAGATGACATCAAAGCAACTCAGACTGATATTAACTTAGCAGATATACAGCCG
GATCTGCTTCCCCAACACCTACCTTCAAAAACAGAAAACATCGGGACTTTCGTTTCATCTGACTTTAGCCGCAGTT
CTAGAGGAAGTCTTAATGGTGGCAATAGAGTAAATAATGCAAAGAACAACCGGACCAACAATGAGAATAACAAAA
AGGAATCTCGAAACAAGAATTCATTAGGAAGATCTGAAAGAAGAACATCAAAAGTGTCTAGGAAAGGTTCAAAAG
ATGTGGTGGATCACATGACTATTTCATATGGATGACTCTGATTCAATTACAGTGTGAGAACAAGTGAGCCTTCAG
CTGAGTGCTGGCAGAATATGTATAAATTGCTTAACTTCTATTCACTTATCTCCGATCCAACAGGAATATTGGAAA
AGTCTTCAGAAACATTTGGACCAGCAGGAGTTCGGAGCCCTACAGAGCCAACATGTAAAGTTGTGTTTGAGAATG
AACAGACAACAGCAGTTTGACTAAGACTCAGAGGAAACGTAGCTTGGTAACTTCTGAACCTCAGCATGTTACTC
TAATAGTGTTTGGGATTGGCATGGTGAACCGCACACACCTAGAGGCAGATATTGGTGGACTAACAAATGGAATCAG
AACTGAAGAGGATCCATGGCAGTTTTACTCTTAAGGAAAAAATGAAAGATGTTTACATCAAAAGATGACTGAGA
CTTGCTGCTACTGCTCATATTGGTGGGGTTAATATTGTGCTGCTGAAGGGATTACACCAAATATACAACCTGGAGG
ATTTTCCTACATCTCCTACAAGTACAGCCAAACAAGAGTTTCTGTATGTCATATTATTCTTTTTCATGGCTTTGT
AATTACTGTAGTATTGAATAGTTTTTAAATATTTAAATTTTTTTCATGGCTGTGAATTATTTAGTTATTGTTTT
GTAGCTGTAATATAGGCCCTTTTATATAATAGATTAAAGCTTACTGGTAATCAAGGAAAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 2314

MPVKDSPRKESLLSYLTGSFPSLHNLLEGTPQRSSAAVKSSSLTRTGNTVATDMLSEHPLLSEFPSSVSFYNWMSN
AVGNRGSVLQESPVTKSGHNSLPTGVAPNLPTIPSASDFNTVLSSDQNTLDGTHSQHSTSQDDVAGVEEANQGFP
AVQLADAQVVFKPLLSTGTGQSQDTMPFCYRMYFGEHLSFSGTLDCLRADIVDSDTAKERKKGKRARRQGHVNLPP
LEFKPALMLGTFSISAVVMEKSVCTPQNSTALSFDLSKRYNTFHCNFTISCQSIQHVDMALVRLIHQFSTM
IDDIKATQTDIKLSRYTAGSASPTPTFKTRKHRDFRSSDFSRSSRGS LN GGNRVNNAKNKRTNNENNKKESRKN
SLGRSERRTSKVS RKSGSKDVVDHMTIHMDDSDSITVSEQSEPSAECWQNMFKLLNFYSLISDPTGILEKSSETFG
PAGVRSPTPTCKVVFENEQDNSSLIKTQRKRLVTSEPQHVTLIVFGIGMVNRTHLEADIGGLTMESELKRIHG
SFTLKEKMKDVLHQMTETCATAHIGGVNIVLLEGITPNIQLEDFPTSPTSTAKQEFVILFFFMAL

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FIGURE 2315

ATAATTCACTGGAAGTGTGACATAGATGTATCAAAGGGAGCATTGCTAGAAGGGCAGCTAGTGATTTCATAGAA
GGATTAAATTCCTAAGCACCAGGCAAATGCTCTTCATTGTGTAACTAGATGGAGTCTCACTCTGTTACCCAGG
CCGGAGTGCACTGGCGCAGTCTCGGCTCACTGCAACCTCCACCTCCCAGGTTCAAGTGATTCTCATGCCTCAGTC
CCCCGAGTAGCTGGGATTACAGATGCCCACCACCATGCCTGGCTAATTATGCTTGCTTCTGCAGGAAGCCTTTTT
GGTGGCATGGTCTCAAGAAGTTCCTAAAAGAAATACAGTCCATACTGCCCAGGAATCTCTGCAAAGCTGACTTGG
ACTTCAGAGGAAGGCAGCTATTCTCAGGATATGACAGGGGTAACACCCTTCCAGATGATTTTTGAGGTTGATGAA
AAGCCCAGAACCTTGATGACAGATTGTCTGGTTATAAAGCATTTTTTACGTAAAATCATCATGGTGCACCCTAAG
GTCAGATTTCAATTCAGTGTAAGGTAAATGGAATCCTCTCCACAGAGATCTTTGGGGTGGAGAATGAACCCACT
TTGAACCTTGGGAATGGAATGCTCTTTTGGTGGACTCCCAGCATTATGTGAGACCAAATTTTGGTACAATTGAA
TCACACTGCAGCAGAATTCACCCTGTGCTAGGACATCCAGTAATGCTTTTCATCCCTGAAGACGTGGCTGGCATG
GACTTGTTGGGAGAACTGATACTGACTCCAGCAGCTGCACTGTGCCCCAGCCCAAAGGTTTCTTCCAACAGCTT
AACAGGATTTCTTCAGTTTCCATATTTCTATATGGACCTTTGGGTCTGCCTCTGATATTGTCAACTTGGGAGCAG
CCGATGACTACTTTCTTCAAAGATACCTCTTTCTTTAGTTGACTGGAAAAAATACCATTTGTGTATGATACCCAAT
TTGGATCTCAATTTGGATAGAGATTTGGTGCTTCCAGATGTGAGTTATCAGGTGGAATCCAGTGAGGAGGATCAG
TCTCAGACTATGGATCCTCAAGGACAACTCTGCTGCTTTTTCTCTTTGTGGATTTCCACAGTGCATTTCCAGTC
CAGCAAATGGAATCTGGGGAGTCTATACTTTGCTCACAACCTCATCTCAATGCCATCCTTGTGGAGAGCCACAGT
GTAGTGCAAGGTTCCATCCAATTCAGTGTGGACAAGGTCTTGGAGCAACATCACCAGGCTGCCAAGGCAGCTGAC
ACACAAGAGTTTCAGGACCAAACCTGCACAAAGTATTTCTGTGAGATCACCCAACACCAATTTCTTCACCACTGCTCA
TGTGAGGTGAAGCAGCAGCTAACCTTAGAAAAAAGGACTCAGCCCAGGGCACTGAGGACGCACCTGATAACAGC
AGCCTGGAGCTCCTAGCAGATACCAGCGGGCAAGCAGAAAAACAAGAGGCTCAAGAGGGGCAGCCCCCGCATAGAG
GAGATGCGAGCTCTGCGCTCTGCCAGGGCCCCGAGCCCGTCAGAGGCCGCCCGCGCCGCCGGAAGCCACCGCG
GCCCCCTCACTCCTAGAGGAAGGGAGCACCGCGAGGCTCACGGCAGGGCCCTGGCGCCGGGCAGGGCGAGCCTC
GGAAGCCGCTGAGGACGTGCTGTGGCTGCAGGAGGTCTCCAACCTGTCAGAGTGGCTGAGTCCCAGCCCTGGG
CCCTGAGCCCGGTCCCCCTCCGCAAGCGCCCAACGATCCGGAGGCTGCGGGCAGCCGTTATCCCGTGTTTTAATA
AAGCTGCCGCGCTCACCAAAAAAAAAAAAAAAAAA

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FIGURE 2316

MVASAGSLFGGMVLKKFLKEIQSILPGISAKLTWTSEEGSYSQDMTGVTFFQMIFEVDEKPRTLMTDCLVIKHFL
RKIIMVHPKVRFHFSVKVNGILSTEIFGVENEPTLNLGNGIALLVDSQHYVRPNFGTIESHCSRHPVLGHPVML
FIPEDVAGMDLLGELILTPAAALCPSPKVSSNQLNRISVSIFLYGPLGLPLILSTWEQPMTTFFKDTSSLVDWK
KYHLCMIPNLDLNLDRDLVLPDVSQVESSEEDQSQTMDPQGQTLLLELFVDFHSAFPVQQMEIWGVYTLTTHL
NAILVESHVVGSIQFTVDKVLEQHHQAACAADTQEFRTKLHKVFREITQHQLHHCSEVKQQLTLEKKDSAQ
GTEDAPDNSSLELLADTSGQAENKRLKRGSPRIEEMRALRSARAPSPSEAAPRRPEATAAPLTPRGREHREAHGR
ALAPGRASLGSRLEDVLWLQEVSNLSEWLSPSPGP

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FIGURE 2317

CTGACTCTGTCTGGGCATTCTTCTCTGGGCTAGAGATGCTCTGCCTCCCAGCAGAAGACAAGAGCCCTAGAAAGAC
TGTCATTCACTTACTGGAGAGAGAAAATGGTTCACTCTACACACACACTCAGAGCCTGGCTAGCTACAAAGCCGTGG
TCCGTGGTAGGATGTACGTCTTAGTGGAATAAGTAACCTTGAGCAGACAATGGATCCAGCAGTAACAGCCTGCC
CTGATGCCGGCGTAAATTCCGAAGGAGCTGGAGAACGATTCTTCCCTTCACTTTATCTAAATCCTCTGAAGGATG
AGTGGGAGGATGGTTTCTTCTCCCTTCTGAAGGTTGTTTTGTTGGTGCCCTATGCTAAGAGAACTCAGCAGATA
CAAATTTATTATTTTCTTTTAGACAGCAATTTCCCTGCAGTTAGAAGAAAACAGCAGCTCACATTGAAAAATATC
TAATTCCTAAAAATACGTGATTCCAATAGGGAGTTTATAGAATTTGCTTCTTACCAAAGCAAAATCTTGAATACAT
GAAATCTAAATCTTGCCAATTTAATGAATGCCTAATAATTTTTTAAATAGCATAATCATTTTTAATACATTAAAT
AGTTGGAAGATTGTTGAGGGATAATTTGTCAATTTTTTATTAAAAAGAAAATTCTAAAAAATTAAATATTCTACA
TTTATTTTATATTATTATCTTGCAATTTTTATTTTATGACAAAATTCTGAGTCTGTTATATTATCCAAATCCT
AAAAAGATTTAATTGATTACAGAAAAATGTATTGGGAAAAAATTGCTTTGCCCTCTTTTTTCTCTAAGCAATTCC
TGAGTTTTAAAAATACTCCTTAAAGGAATAATTTTATTTTCTATGGCCCATCACCATATCCAAGAGAGTAACCA
ATTTTTAAATCTGAACCCCTGTCTTGTGTGACTTTCAAATAAATGAAATGAAGAGGCCCTCAGGCAGTCTGTGTT
TACACAGGGTGGCAAAATTAACCTTAAGTTACTTGGATCACTGCAGTGGGACACTTCAGAGCCTCTACTCAGGC
TACTTTTGAGCATACTATGTATGTCTGTGTCAGAACCTTCTTCTACTCTAGATAAAACAAGACTTTCTGA
GCACTTACTCTGAGCAAAAGCACCGTGCCGCAAGTACAAAGGTGGATAAGACTCAGTCCTTGATTGATGGTCTTT
GTTGGAATAGGTTTTCAAACCTGTAATGTCAGTGTCTCTCCAGGGGCCAAAAGTTTGCTTTTATTGATGGGTTT
AAAGTAGGGATGAGTTTACTTATAAGTACACATTGTGTCTATTAGTATGCTTGACTCTCCATGGTGCAAAATTTCT
TTCTAATGCTGATCAATTGCAACATGATAGAACAAATGAAATACCTTCCAGGACATTCTAAATCACTCTCCTCCTT
GTGAGAAAAATAGGGTAGAGAGCCTAGCCTGGTACAGGCAGCCATCCATGTCTGATGTGGGTCATCTCTGAGAATG
ACACTCCTCAAAGGGCCAGAGGGTGCTCTTTCTTCAATTTCCCTTACACATGGGTGTTATTCAATACTTATCTACA
GCCATGTGTCACTTAACAACCTGGAATATGTTCCAAGAAATCTGTCTATTAGGCTATTTTGTATTGTGTGATCACA
GAGTGTACTTACACAAACCTAGGGTGGTATAGTTCACTGTACCACCAAGGCCATATAGTGTAGCCTAGGCTACAA
TATACCTAGGCTATATAGTATAGCCTGTAGCTCTAGGCTACAAACCTGGACAGCATGTTACTGCACTGAGTACT
GTAGCAATTGTTACACAGTGGTAACATTTGTGTATCTAAACATATCTAAACATAGAAAAGATACAGTAAAAATA
CAGCAGTATAATCTTATGGGACCACCGTTGTATATGTGGTCCATCGTTGATGGAAACATTGTTATGTGGCACATG
ACTGTATATGCTTCGTATATAGTGAACATTCAGCAAAGGTTTTCTATCAATGAATGGATAAATTGGCACTTTTTAT
GGGCTTAATTGGGCTAAAAATATATACGGAGTCACTATTTGACTTAACACCTAGACATTATTTTACTGATATTTT
CAATAATTCTGTTTTTGTAAAGCCTTCCCTCCATTGGGTGCAATTTCCACTTGGGGAAAATCTCATTCCCCATC
CTCTTGTAATTAAAAAGCATGGTTTGTGTTTGTGTAACCTCAAAGTAAATTGAGCAAAAAAAAAAAAAAAAAAAAA
AA
AA

A

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FIGURE 2318

CGGGTTCTCTAGGAAAATTCCTTTGTGCAGATCAGGCCCGTGGATTGGTGAGTGAATCCTAACCACGTCTTCCC
TGGCCTGTCTTCACTCTTCTCCCCAGAATCACCACCTTCTGCCTGGTGTCTGAAGGTGATTGAGTGATTTTGTG
GAGGGCAGAAAGTAGGAAGTCTTTGGGACAAAACCTGTATTTACCTTGGGATCTGTGAACAAGAGGAACCTCAGCAG
CCAGGACAGGCAGGAGCAGTGGAAATAGCTACTATGGCTTCTGGAATCCTGGTTAATGTAAAGGAGGAGGTGACCT
GCCCCATCTGCCTGGAACCTCTGACACAACCCCTGAGCCTGGACTGCGGCCACAGCTTCTGCCAAGCATGCCTCA
CTGCAAACCACAAGAAGTCCATGCTAGACAAAGGAGAGAGTAGCTGCCCTGTGTGCCGGATCAGTTACCAGCCTG
AGAACATACGGCCTAATCGGCATGTAGCCAACCTTAGTGGAGAAGCTCAGGGAGGTCAAGTTGAGCCCAGAGGGGC
AGAAAGTTGATCATTGTGCACGCCATGGAGAGAAAACCTTCTACTCTTCTGTGAGGAGACGGGAAGGTCAATTTGCT
GGCTTTGTGAGCGGTCTCAGGAGCACCGTGGTCACCACACGTTCCCCACAGAGGAGGTGCCCAGGAGTACCAAG
TGAAGCTCCAGGCAGCTCTGGAGATGCTGAGGCAGAAGCAGCAGGAAGCTGAAGAGTTGGAAGCTGACATCAGAG
AAGAGAAAGCTTCTGGAAGACTCAAATACAGTATGACAAAACCAACGCTTTGGCAGATTTTGAGCAACTGAGAG
ACATCCTGGACTGGGAGGAGAGCAATGAGCTGCAAAACCTGGAGAAGGAGGAGGAAGACATTCTGAAAAGCCTTA
CGAACTCTGAAACTGAGATGGTGCAGCAGACCCAGTCCCTGAGAGAGCTCATCTCAGATCTGGAGCATCGGCTGC
AGGGGTGAGTGTGAGAGCTGCTTCAAGGTGTGGATGGCGTCATAAAAAGGACGGAGAACGTGACCTTGAAGAAGC
CAGAAACCTTTTCCAAAAAATCAAAGGAGAGTGTTCGAGCTCCTGATCTGAAAGGAATGCTAGAAGTGTGTTAGAG
AGCTGACAGATGTCCGACGCTACTGGGTTGATGTGACAGTGGCTCCAAACAACATTTTCATGTGCTGTCTTTCTG
AAGATAAGAGACAAGTGAGCTCTCCGAAACCACAGATAATATATGGGGCAGGAGGACAAGATACCAGACATTTG
TGAATTTCAATTATTGTACTGGCATCCTGGGCTCTCAAAGTATCACATCAGGGAAACATTACTGGGAGGTAGACG
TGTCGAAGAAAACCTGCTTGGATCCTGGGGGTATGTGCTGGCTTCCAACTGATGCAATGTGTAATATTGAAAAAA
ATGAAAATTATCAACCTAAATACGGCTACTGGGTTATAGGGTTAGAGGAAGGAGTTAAATGTAGTGCTTTCCAGG
ATAGTTCTTCCATACTCCTTCTGTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT
TTTTCTAGACTATGAGGCTTGCCTGTCTCATTCTTCAATATCACAAACCATGGATTTCTCATCTATAAGTTTT
CTCACTGTCTTTTTTCTCAGCCTGTATTTCCATATTTAAATCCTAGAAAATGTGGAGTCCCCATGACTCTGTGCT
CACCAAGCTCTTGAACCTTCTTACACACTCAGCCCCCTTCTGTACAGCACCTCTTGTCCAGGTGCATCTCATAAC
CTGAACTCATTTGCATCATTTTAACCATCTTTTCTTGTGTCTCCCTTCTTCTTCTTCTTCTTCTTCTTCTTCT
TCAGTAAAATGTAATAATTGCCTTGTGCCATATTGTCCCAATATTTTATGACATTTGATAGCAATTTTTTTCA
TCATTTTCCGTACTCCTAAGGAAAACCTGACCTATACCTCATAAAATGAGACCGCTATTTAGGTATTACTTCTGCC
AGATATTTATCACCCAATTGCCTCTGACACTGACTAAGAAGATGAAGAAAAGCTTTTCAACAGCCTTTCTATATC
ATCGTGTGATAATTGTTACCAATGAATGAGTCCTTAGCCCTGTGTGCTAGTTACCCTCGATGCCCTTATTTGTGA
GTTAAAGAGAAAATATCATAAATGGTATACTCTTAAGTATAGAGGTTTTGTATCTAGAGGATCTCAGTTCAACTC
CTGTCTCTCCATATACCAGCAGTGTAACTGTGAATAACATACTTAAATGGCTGTGCTTATTTCTTTTTCTTTTTCT
TTTTTCTTTTTTTTTTTTTTTTGTAGATGAAGTTTTGCTCTTGTTCCTCAGGCTGGAGTGCAATGGCAGCATCTCGG
TTCAGTGAACCTCCACCTCTCAGATTCAAGCAATTCTCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGTG
CCCACCACCACCCCTGGCTAAATTTGTATTTTCAGTAGAGACGGGGTTTTCCCATGTTGGTTAGGCTCGTCTAGA
ACCTCTGACCTCAGGTGATCCACCCGCCTCGGCTCCCAAAGTGTGGGATTACAGGCGTGAGCCACGGCGCCCA
GCCTGTGCTTATTTCTTAAATAAATTTTGTATTAAAACTTCACATTAAATAAGTGCTAATGTTTTATTGCAT
AGTAGGGTGACTAGAGTTAAACAATAACCTATTGCATATATTTTGAATAGCTAGAAGAGAGGATTTTGAAGGTT
TCAACACAAAGAAACGACACATATTTGAGGTGATGGATATGCTAATTACCCTGGTTTCGGTTATTACGCAATGTAT
ACATGTATCAAAACATCACACTGTACCACATAAATATGTATATTTATTATTTGTCAATTAAAAGCAAAATAAAAC
AAAAAACCTTCATCTAATACTTTGGATCATTGTGAAAAATAAATTCCTGAAGTATAAAGCATCT

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FIGURE 2319

MASGILVNVKEEVTCPICLELLTQPLSLDCGHSFCQACLTANHKKSMLDKGESSCPVCRISYQPENIRPNRHVAN
LVEKLREVKLSPEGQKVDHCAHGEKLLLFQEDGKVICWLCERSQEHRGHHTFPTEEVAQEYQVKLQAALMLR
QKQQEAELEADIREEKASWKTQIQYDKTNVLADFEQLRDILDWEESNELQNLKEEEEDILKSLTNSETEMVQQT
QSLRELISDLEHRLQGSVMELLQGV DGVKRTENVTLKKPETFPKNQRRVFRAPDLKGMLEVFRELTDVRRYWVD
VTVAPNNISCAVISEDKRQVSSPKPQIIYGARGTRYQTFVNFNYCTGILGSQSITSGKHYWEVDVSKKTAWILGV
CAGFQPDAMCNIEKNENYQPKYGYWVIGLEEGVKCSAFQDSSFHTPSVPFIVPLSVIICPDRVG VFLDYEACTVS
FFNITNHGFLIYKF SHCSFSQPVPFYL NPKCGVPMILCSPSS

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FIGURE 2320A

ATCTCTATCCTTCTTCTGGTCCTTCTAGAAAAATCAGGTGGAGATGATAGTGGCTTGCATGATGGTGGTAGAGCT
GGAGGTGCAAGGCAAAGGTCAGATTCTGAATATATTTTGAAAGTAAAGGCAACAAGATTTCTGACAGATTGATT
ATGGTGTGTCAAAGAAAGAGAGGAATGCAGGATGATTCCAGTGTGTTTTGTTGACAACTATAAGTCTGGAGCTGCC
AACTGGATGCAGAAGTTCCTGGAGGGCCAGCCTGGGGAAAGGATCAGGAGCAGGTTAGGCATGTTAAGCTTGA
GATGTCTGTTAAACATCCAGATAGGAATGTCAAAGATGCACTTGTGTTAAGAGTCAGGAATGCAAGAGGGAATT
TTAGGCTAGAAAACAAAAAGTTAGAAATTATTCGATACAGATGGTATTTAAAGCTGTGTGACTGACTGACATGACA
GAAGTGGCGAGAATAGACTGAGAAGTCCAAGGAATGAGCCTTGGACCACTCCAGTGTAGGTAAGTAGTTGAAAA
AAAGAGAGAGAGAGAAGGCATCAAAGGAGACTGAGGAAGAGTGATCAGGAAAGCATAGGAAAATCCGAGAAACAT
ATGGTGTCTGGAATCTATATGAAAAAGATATATTCAGAAAGACAGAGTGATAAATCTGTCAAATTATTGAATTT
GTCAGGTAAAAATAAGAACAGAGAATTGATCTTTGGACTTAGCAAAGCAGAGATTATCAGTGAATTTTATAAAAAAT
AGTTTCGGTAGTGTGGAAAGATCAAACCTTCTGTTTAGAGTGGGTTTCAGAGAGAACAACAGGAATTGAAGAAGTA
ATAAACTTTGCCAACCAAGTTTAGCTCCAAAGGAAAAGAGGGAAATATGATGGTAGCTGGCAGGGGAAGTGTGGTC
AAGAGAGGTTTTTTGTTTGTGTTTTCAAGATGGAAGAAATAACAGTATGTATGTAAGCTCACAGGAGGGATCCAGC
AGGCATGGGGAAATTGATGATATAGGACAGAAAGGGAAGAAATGGCTCCTTGTGAAAGTGAAAGGGGATGGGATCT
ACAGGATGAACATGCAAAACAAAGACTGGCTGCAAGAGAGGCATGAATAGTTCATTTACAGAAACAGCAAAGGCA
GAGTGTGGTACAGATGCTGGTAAGTGGAAAAATATCATGGTAGGAGGTTATGGAGTTCATTCTAAACACTTCA
ACTTCATCAGTGAATAAGCACGGTAATTTAGCAGAATGTGAAGATGTAAAGAACAGAATTTGAGAAAACAGAC
GATATGAAATAATTATTAGAAAAGCAGAGACTGAAGAACTGTCTCTCTTATGTGCTAATGAGTTTAATAATG
TCTCCAGTCACCACAAGCCTTCTTTCAAACACTACAAATCCAACCTGCTCCGCTCAGAGTATCTTGAAATAAT
GATCTGACCGCTGTTAGACCAGTGAAGGGAAGGAATTTGGGTTGATTTAAGAAGAGAATCCTCATGGTCATGGT
AGACTGATATGGAGAGAAAACATTTTGAGGAAAAATACTCAACTAAATTCATTTCTACTCCAGCATGCAGTTTCA
AGTCAAGTTCCACCTTAGCTCCAGGTGGCAGGCAGAGCAGGATGCAGAGGCACAGCACAAGTAAGGGATCCAATG
ACTGAGTCAAGAATTACATAACCTGGCCAGACAGCTGGTACATGGGAAAGTGCTAAGAGGGCACCACAGCGTTC
CTCTCCCCAAGGAGCATAATGTGATGGTCTCTGCCGCCCTGGCTGACTCTCGCCGCTCTGGAGATAATTGGG
TTCAGTGCCACCTGGACCAGAACTGGGGATGCGGAAGCAACCTGCCAGACACGCGCGAGGTTGAGGCTGAGATG

GATCTTGAGGCGGCAAAGAACGGAACAGCCTGGCGCCCCACGAGCGCGGAGGGCGACTTTGAACTGGGCATCAGC
AGCAAACAAAAAAGGAAAAAACGAAGACAGTGAAAATGATTGGAGTATTAACATTGTTTCGATACTCCGATTGG
CAGGATAAATTGTTTATGTCGCTGGGTACCATCATGGCCATAGCTCACGGATCAGGTCTCCCCCTCATGATGATA
GTATTTGGAGAGATGACTGACAAATTTGTTGATACTGCAGGAACTTCTCCTTCCAGTGAATTTTCTTGTGCG
CTGCTAAATCCAGGCAAAATCTGGAAGAAGAAATGACTAGATATGCATATTACTACTCAGGATTGGGTGCTGGA
GTTCTTGTGCTGCCTATATACAAGTTTCATTTTGAGCTTTGGCAGCTGGTCGACAGATCAGGAAAAATTAGGCAG
AAGTTTTTTCATGCTATTCTACGACAGGAAATAGGATGGTTTGACATCAATGACACCACTGAATCAATACGCGG
CTAACAGATGACATCTCCAAAATCAGTGAAGGAATTGGTGACAAGGTTGGAATGTTCTTTCAAGCAGTAGCCACG
TTTTTTCAGGATTTCATAGTGGGATTCATCAGAGGATGGAAGCTCACCTTGTGATAATGGCCATCAGCCCTATT
CTAGGACTCTCTGCAGCCGTTTGGGCAAAGATACTCTCGGCATTTAGTGACAAAGAACTAGCTGCTTATGCAAAA
GCAGGCGCGTGGCAGAAGAGGCTCTGGGGGCCATCAGGACTGTGATAGCTTTCCGGGGGCCAGAACAAAGAGCTG
GAAAGGTATCAGAAACATTTAGAAAATGCCAAAGAGATTGGAATTAAGAAAGCTATTTAGCAAAACATTTCCATG
GGTATTGCCTTCTGTTAATATATGCATCATATGCACTGGCCTTCTGGTATGGATCCACTCTAGTCATATCAAAA
GAATATACTATTGGAATGCAATGACAGTTTTTTTTTCAATCCTAATTGGAGCTTTAGTGTGGCCAGGCTGCC
CCATGTATTGATGCTTTTGCCAATGCAAGAGGAGCAGCATATGTGATCTTTGATATTATTGATAATAATCCTAAA
ATTGACAGTTTTTTCAGAGAGAGGACACAAACCAGACAGCATCAAAGGGAATTTGGAGTTCAATGATGTTCACTTT
TCTTACCCTTCTCGAGCTAACGTCAAGATCTTGAAGGGCCTCAACCTGAAGGTGCAGAGTGGGCAGACGGTGGCC
CTGGTTGGAAGTAGTGGCTGTGGGAAGAGCACACGGTCCAGCTGATACAGAGGCTCTATGACCCTGATGAGGGC
ACAATTAACATTGATGGGCAGGATATTAGGAACCTTAATGTAACTATCTGAGGGAAAATCATTGGTGTGGTGAGT
CAGGAGCCGTGCTGTTTTCCACCACAATTGCTGAAAATATTTGTTATGGCCGTGGAAATGTAACCATGGATGAG
ATAAAGAAAGCTGTCAAAGAGGCCAACGCCTATGAGTTTATCATGAAATTACCACAGAAAATTTGACACCCTGGTT
GGAGAGAGAGGGGCCAGCTGAGTGGTGGGCAGAGCAGAGGATCGCCATTGCACGTGCCCTGGTTCCGAACCCC
AAGATCCTTCTGCTGGATGAGGCCACGTGAGCATTTGGACACAGAAAGTGAAGCTGAGGTACAGGCAGCTCTGGAT

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FIGURE 2320B

AAGGCCAGAGAAGGCCGACCACCATTGTGATAGCACACCGACTGTCTACGGTCCGAAATGCAGATGTCATCGCT
GGGTTTGAGGATGGAGTAATTGTGGAGCAAGGAAGCCACAGCGAACTGATGAAGAAGGAAGGGGTGTACTTCAA
CTTGTCAACATGCAGACATCAGGAAGCCAGATCCAGTCAGAAGAATTTGAACTAAATGATGAAAAGGCTGCCACT
AGAATGGCCCCAAATGGCTGGAAATCTCGCCTATTTAGGCATTCTACTCAGAAAAACCTTAAAAATTCACAAATG
TGTCAGAAGAGCCTTGATGTGGAACCCGATGGACTTGAAGCAAATGTGCCACCAGTGTCTTTCTGAAGGTCCTG
AAACTGAATAAAACAGAATGGCCCTACTTTGTCTGGGAACAGTATGTGCCATTGCCAATGGGGGCTTCAGCCG
GCATTTTCAGTCAIATTTCTCAGAGATCATAGCGATTTTTGGACCAGGCGATGATGCAGTGAAGCAGCAGAAGTGC
AACATATTCTCTTTGATTTTCTTATTTCTGGGAATTATTTCTTTTTTACTTTCTTCTTCCTTCAGGGTTTCAGTTT
GGGAAAGCTGGCGAGATCCTCACCAGAAGACTGCGGTCAATGGCTTTTAAAGCAATGCTAAGACAGGACATGAGC
TGGTTTGATGACCATAAAAAACAGTACTGGTGCACTTTCTACAAGACTTGCCACAGATGCTGCCCAAGTCCAAGGA
GCCACAGGAACCAGGTTGGCTTTAATTGCACAGAATATAGCTAACCTTGGAAGTGGTATTATCATATCATTATC
TACGGTTGGCAGTTAACCTATTGCTATTAGCAGTTGTTCCAATTATTGCTGTGTGAGGAATTGTGAAATGAAA
TTGTTGGCTGGAAATGCCAAAAGAGATAAAAAAGAACTGGAAGCTGCTGGAAAGATTGCAACAGAGGCAATAGAA
AATATTAGACAGTTGTGTCTTTGACCCAGGAAAAGAAATTTGAATCAATGTATGTGAAAAATTGTATGGACCT
TACAGGAATTCTGTGCAGAAGGCACACATCTATGGAATTACTTTTAGTATCTCACAAGCATTATGTATTTTTCC
TATGCCGGTTGTTTTCGATTTGGTGCATATCTCATTGTGAATGGACATATGCGCTTCAGAGATGTTATTTCTGGTG
TTTTCTGCAATTGTATTTGGTGCAGTGGCTCTAGGACATGCCAGTTCATTGCTCCAGACTATGCTAAAGCTAAG
CTGTCTGCAGCCCACTTATTCATGCTGTTTGAAAGACAACCTCTGATTGACAGCTACAGTGAAGAGGGGCTGAAG
CCTGATAAATTTGAAGGAAATATAACATTTAATGAAGTCGTGTTCAACTATCCCACCGAGCAAACGTGCCAGTG
CTTCAGGGGCTGAGCCTGGAGGTGAAGAAAGGCCAGACACTAGCCCTGGTGGGCAGCAGTGGCTGTGGGAAGAGC
ACGGTGGTCCAGCTCCTGGAGCGGTTCTACGACCCCTTGGCGGGGACAGTGTGTTGTGGACTTTGGTTTTTCAGCTT
CTCGATGGTCAAGAAGCAAAGAACTCAATGTCCAGTGGCTCAGAGCTCAACTCGGAATCGTGTCTCAGGAGCCT
ATCCTATTTGACTGCAGCATTGCCGAGAATATTGCCTATGGAGACAACAGCCGGTTGTATCACAGGATGAAATT
GTGAGTGCAGCCAAAGCTGCCAACATACATCTTTTCATCGAGACGTTACCCACAAATATGAAACAAGAGTGGGA
GATAAGGGGACTCAGCTCTCAGGAGGTCAAAAACAGAGGATTGCTATTGCCCGAGCCCTCATCAGACAACCTCAA
ATCCTCCTGTTGGATGAAGCTACATCAGCTCTGGATACTGAAAGTGAAAAGGTTGTCCAAGAAGCCCTGGACAAA
GCCAGAGAAGGCCGACCTGCATTGTGATTGCTCACCAGCTGTCCACCATCCAGAATGCAGACTTAATAGTGGTG
TTTCAGAATGGGAGAGTCAAGGAGCATGGCACGCATCAGCAGCTGCTGGCACAGAAAGGCATCTATTTTTCAATG
GTCAGTGTCCAGGCTGGGACACAGAACTTATGA~~ACT~~TTTTGCTACAGTATATTTTAAAAATAAATTCAAATTATTC
TACCCATTTT

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FIGURE 2321

MDLEAAKNGTAWRPTSAEGDFELGISSKQKRKTKTKVMIGVLTFLFRYSWQDKLFMSLGTIMAHGSGPLMM
IVFGEMTDKFVDTAGNFSFPVNFSLSLNPGKILEEEMTRYAYYSGLGAGVLVAAYIQVSFWTLAAGRQIRKIR
QKFFHAILRQEIGWFDINDTTELNTRLTDDISKISEGIGDKVGMFFQAVATFFAGFIVGFIRGWKLTIVIMAISP
ILGLSAAVWAKILSAFSDKELAAAYAKAGAVAEALGAIRTVIAFGGQNKELERYQKHLENAKEIGIKKAISANIS
MGIAFLLIYASYALAFWYGSTLVISKEYTIGNAMTVFFSILIGAFSVGQAAPCIDAFANARGAAYVIFDIIDNNP
KIDFSERGHKPDNIKGNLEFNDVHFSYPSRANVKILKGLNLKVQSGQTVALVGSSGCGKSTTVQLIQRLYDPDE
GTINIDQDIRNFNVNLYREIIGVVSQEPVLFSTTIAENICYGRGNVTMDEIKKAVKEANAYEFIMKLPQKFDTL
VGERGAQLSGGQKQRIAIARALVRNPKILLDEATSALDTESEAEVQAALDKAREGRTTIVIAHRLSTVRNADVI
AGFEDGVIVEQGSSELKKEGVYFKLVNMQTSQSIIQSEEFELNDEKAATRMANGWKSRLFRHSTQKNLKNQ
MCQKSLDVETDGLANVPPVSFLKVLKLNKTEWPYFVVGTVCAIANGGLQPAFVIFSEIIAIFGPGDDAVKQKQ
CNIFSLIFLFLGIIISFFTFFLQGFTFGKAGEILTRRLRSMAFKAMLRQDMSWFDDHKNSTGALSTRLATDAAQVQ
GATGTRLALIAQNIANLGTGIIISFIYQWQLTLLLLAVVPIIAVSGIVEMKLLAGNAKRDKKELEAAGKIAATEAI
ENIRTVVSLTQERKFESMYVEKLYGYPYNSVQKAHIYGITFSISQAFMYFSYAGCFRFGAYLIVNGHMRFRDVIL
VFSIAIVFGAVALGHASSFAPDYAKAKLSAAHLFMLFERQPLIDSYSEGLKPKDFEGNITFNEVVFNYPTRANVP
VLQGLSLEVKKGQTLALVGSSGCGKSTVVQLLERFYDPLAGTVFVDFGFQLLDGQEAKKLVQWLRAQLGIVSQE
PILFDCSIAENIAYGDNRVVSQDEIVSAAKANIHPFIETLPHKYETRVGDKGTQLSGGQKQRIAIARALIRQP
QILLDEATSALDTESEKVVQEALDKAREGRTCIVIAHRLSTIQNADLIVVFQNGRVKEHGTHQQLLAQKGIYFS
MVSVQAGTQNL

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FIGURE 2322

TCTCTCTGTACCTCACCCTTCCCTGTGCCACATGGGCCCTCTCTCTCCTGCCAGGACGCTGCGGCTCTGGGGAC
CTCGGAGCCTGGGGGTGGCTCTGGGAGTCTTCATGACCATTGGCTTTGCACTCCAGCTCTTGGGAGGGCCCTTCC
AGAGGAGGCTACCTGGGCTACAGCTCCGACAGCCCTCGGCCCATCCCTACGACCAGCCCTTCCGTCTGCCAC
CCCGGCAGCGACTGGTGTCTCTGAAGACACATAAATCCGGGAGCAGCTCTGTGCTGAGCCTGCTTCACCGCTATG
GGGACCAGCACGGGCTGCGCTTCGCCCTCCCTGCCGCTACCAGTTTGGCTACCCAAAGCTCTTCCAGGCCTCTA
GGGTAAAAGGCTACCGCCACAGGGTGGAGGCACCCAGCTCCCTTCCACATCCTCTGTCACTTGAAGTTCA
ACCTGAAAGAGGTACTTCAGGTCATGCCTTCTGACAGCTTCTTTTTTCCATTGTCCGAGACCCAGCGGCTCTGG
CTCGCTCTGCCTTCTCTACTATAAATCCACCTCATCAGCCTTCCGCAAGTCACCATCTTGGCTGCCTTCTCTGG
CCAATCCTCGAGGCTTCTACAGCCTGGGGCCCGTGGGGACCACTACGCTCGCAACTTACTATGTTTGAAGTTTGA
GCTGCCCCCTTCCCCAGAGAAGAGGGCCAAAGAGAGGGAATATTATCCCCCAGAGACCCCAACCCCCACAGC
TGCAGGTCTTGCCTTCTGGTGTGCGCCCTCGAGCCCAAACCTCAATCCCAATGCCCTCATCCATCCTGTTTCCA
CTGTTACTGATCATCGCAGCCAGATATCAAGCCCTGCCTCTTTCGATTGGGGTCTTCACTTTCATCCAGTGGG
GTCTGGCATGGCTGGACTCTGTCTTTCAGCTGGTTCATGGTGGCTGAGTACTTCGATGAGTCATTGGTTCTGTGG
CAGATGCCCTGTGCTGGGTCTAGATGACGTGGTGGGCTTCATGCACAATGCCAGGCTGGACATAAGCAGGGCC
TCAGCACTGTGAGCAACAGTGGACTGACTGCGGAGGACCGGCAGCTGACTGCACGGGCCCCGAGCCTGGAACAAC
TGGACTGGGCTCTCTATGTCCACTTCAACCGCAGTCTCTGGGCACGGATAGAGAAATACGGCCAGGGCCGGCTGC
AGACAGCTGTGGCCGAGCTCCGGGCTCGCCGAGAGGCCCTAGCGAAACATTGTCTGGTAGGGGGTGAGGCTTCTG
ACCCCAAATACATCACTGATCGCCGGTTCCGCCCTTCCAGTTTGGGTGAGCTAAGGTTTTGGGCTATATACTTC
GGAGAGGATTGAGCCCCAAGACCAAGAGGAATGTGAGCGCTAGCTACCCCTGAGCTCCAGTACAAGGACAAGC
TGGATGCCAAGCAGTTCCCCCTACCGTCTCACTGCCCCCTCAAGACTTCAAGGCCACTCTCCCCATAAACATCAG
ACTACAGATTTAGGTGGAAGAGCAGCCATGTTTGAAGGGCACATGTGATGAGTGGGGGGCAGCAAGATGCCATTT
CTGCATCTCCAGAAGGGATGAGTCTTTGTCCCGATGCAAGCCCCCTCTTCGCTGGGCTCCAGCAGTGTCTCC
TCCTCCACCTCCACTCATTTTGTCTTTCCCCCAACTTTTTTTTTTTTGAACGGAGTCTTGCTCTGTCCCC
CAGGCTGGAGTGCAGTGGCATGATCTCGGCTCACTGCAACCTCTGCCTCCAGGTTCAAGCGATTCTCCTGCCCTC
AGCCTCCAGAGTAGCTAGGATTACAGATACGTGCCACCATAACCGGCTAATTTTTATATTTTAGAGACAGGGAT
TCAACATGTTGGTTAGGCTGGTCTTGAATCCTCACCTCAGGTGATCCACATGACTCTGCCCTCCAAAGTGCTGC
CATTACAGGCGTGAGCCACTAGGCCTGACCTCCCTTCCCTTTCCTGCCCAAGGCAGATCCACATCACCGAAG
CTCCCTAGAGGGGCAAAAGATGGAGTGAGCCACAGGAAGTTTGGGGCGTGGTGAGTTGGAATGATACGTCCATTT
CTCTATGAAATATTTGCTACTAGACTGTTCAATTTCTCTCTGACATGTTTGTGAATGAATAAATAATTTGAAACT

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FIGURE 2323

MGPLSPARTLRLWGPRSLGVALGVFMTIGFALQLLGPFQRRLPGLQLRQPSAPSLRPALPSCPPRQRLVFLKTH
KSGSSSVLSLLHRYGDQHGLRFALPARYQFGYPKLFQASRVKGYRPQGGGTQLPFHILCHHLRFNLKEVLQVMP
DSFFFSIVRDPAAALARSASFYYKSTSSAFRKSPSLAAFLANPRGFYRPGARGDHYARNLLWFDFGLPFPPEKRAK
RGNIHPPRDPNPPQLQVLPSGAGPRAQTLNPNALIHVSTVTDHRSQISSPASFDLGSSSFIQWGLAWLDSVFDL
VMVAEYFDESLVLLADALCWGLDDVVGFMHNAQAGHKQGLSTVSNSGLTAEDRQLTARARAWNLDWALYVHFNR
SLWARIEKYQGRLQTAVAEELRARREALAKHCLVGGEASDPKYITDRRFRPFQFGSAKVLGYILRRGLSPQDQEE
CERLATPELQYKDKLDAKQFPPTVSLPLKTSRPLSP

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FIGURE 2324

CTAAAGTGAGCCCAGCGGCGGGTGTGAGAGTCCGTAAGGAGCAGCTTCCAGGATCCTGAGATCCGGAGCAGCCG
GGGTCGGAGCGGCTCCTCAAGAGTTACTGATCTATGAAATGCGCAGAGAATGGAAAAAATTGTGACCAGAGACGTG
TAGCAATGAACAAGGAACATCATAATGGAAATTTACAGACCCCTCTTCAGTGAATGAAAAGAAGAGGAGGGAGC
GGGAAGAAAGGCAGAATATTGTCTGTGGAGACAGCCGCTCATTACCTTGCAATTTTTCTCTGGAAATCCTTG
TAATCTTGAAGGAATGGACCTCAAAATTATGGCATCGTCAAAGCATTGTGGTGTCTTTTTTACTGCTGCTTGCTG
TGCTTATAGCTACGTATTATGTTGAAGGAGTGCATCAACAGTATGTGCAACGTATAGAGAAACAGTTTCTTTTGT
ATGCCTACTGGATAGGCTTAGGAATTTTGTCTTCTGTTGGGCTTGGAAACAGGGCTGCACACCTTTCTGCTTTATC
TGGGTCCACATATAGCCTCAGTTACATTAGCTGCTTATGAATGCAATTGAGTTAATTTTCCGAACCCACCTATC
CTGATCAGATTATTTGTCCAGATGAAGAGGGCACTGAAGGAACCATTTCTTTGTGGAGTATCATCTCAAAAGTTA
GGATTGAAGCCTGCATGTGGGTATCGGTACAGCAATCGGAGAGCTGCCTCCATATTTTCATGGCCAGAGCAGCTC
GCCTCTCAGGTGCTGAACCAGATGATGAAGAGTATCAGGAATTTGAAGAGATGCTGGAACATGCAGAGTCTGCAC
AAGACTTTGCCTCCCGGGCCAACTGGCAGTTCAAAAAGTAGTACAGAAAGTTGGATTTTTTGAATTTTGGCCT
GTGCTTCAATTTCAAAATCCTTTATTTGATCTGGCTGGAATAACGTGTGGACACTTTCTGGTACCTTTTTGGACCT
TCTTTGGTGCACCCCTAATTTGAAAAGCAATAATAAAAATGCATATCCAGAAAATTTTGTATAATAACATTCA
GCAAGCACATAGTGGAGCAATGGTGGCTTTTATTGGTGTCTGTCCCGGCATAGGTCCATCTCTGCAGAAGCCAT
TTCAGGAGTACCTGGAGGCTCAACGGCAGAAGCTTCAACACAAAAGCGAAATGGGCACACCACAGGGAGAAAAC
GGTGTCTCTGGATGTTTGAAGTTGGTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCT
CACAAAGTTATGCCAAACGAATCCAGCAGCGGTTGAACTCAGAGGAGAAAACATAAAGTAGAGAAAGTTTAA
ACTGCAGAAATTGGAGTGGATGGGTTCTGCCTTAAATTTGGGAGGACTCCAAGCCGGGAAGGAAAATTCCTTTTC
CAACCTGTATCAATTTTACAACCTTTTCTCTGAAAGCAGTTTAGTCCATACTTTGCACTGACATACTTTTCTCT
TCTGTGCTAAGGTAAGGTATCCACCCTCGATGCAATCCACCTTGTGTTTTCTTAGGGTGAATGTGATGTTTCAAG
AGCAAACCTTGCAACAGACTGGCCTTCTGTTTGTACTTTCAAAAGGCCACATGATACAATTAGAGAATTCAC
CGCACAAAAAAGTTCTTAAGTATGTTAAATATGTCAAGCTTTTAGGCTGTGCACAAATGATTGCTTTGTTTTC
CTAAGTCATCAAAATGTATATAAATTATCTAGATTGGATAACAGTCTTGCATGTTTATCATGTTTACAATTTAATA
TTCCATCCTGCCCAACCCTTCTCTCCCATCTCAAAAAAGGGCCATTTTATGATGCATTGCACACCCTCTGGGG
AAATTGATCTTTAAATTTTGAACAGTATAAGGAAAATCTGGTTGGTGTCTTACAAGTGAAGTGCACACCATTTT
TATCTGTGTATTTAGAATGAAGTCTTGAAAAAACTTTATAAAGACATCTTAAATCATTCCAAAATTGTGTCCG
TTTTCTTGAGCGTTTTGATTTTTTACTTTTAGCTTATACCAGCTGAATGGCAGCCTTGCCATATCCACCTACAAC
AAGAATTTCTTAAGCTTTCTTTTATTTGCATGAGAGAGCCACTACCAAGGCATGTTTTGTTATGCTGAACTGGG
CTGCTGCATACTGCTAAATGGCACCTCTGGGATTGGCCTACCTGGGGATTCTTGGTTTTGTGAAAACAGGAGAGG
AGAAATATCTCATACAAGTGAAGGATACTGGAGAGAGAAATTACCCATTTCTAAAAAAAACCACTCTGTCCG
TATCTGTGTTAATGTTTTCTAGCATGTACTCTGGTTTCAACAGACACAAATTTATATGTTAACCCAGTTTTCTTG
CCGTTCTGTAAGTGTATTCTTAGTGTGATTTTTTCCATTGGGATGTTTTGATTGAAGTGTTCATTTTGT
TTTGCTTGGGAGGAAAATAACAATTTTACTTTTTTCTTAAAAAAA

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FIGURE 2325

MAENGKNCQRRVAMNKEHHNGNFTDPSSVNEKKRREREERQNIVLWRQPLITLQYFSLEILVILKEWTSKLWHR
QSIVVSFLLLLAVLIATYYVEGVHQYVQRIEKQFLYAYWIGLGILSSVGLGTGLHTFLLYLGPHIASVTLAAY
ECNSVNFPEPPYPDQIICPDEEGTEGTISLWSIISKVRIEACMWGIGTAIGELPPYFMAARAARLSGAEPDDEEYQ
EFEEMLEHAESAQDFASRAKLAVQKLVQKVGFFGILACASIPNPLFDLAGITCGHFLVPFWTFFGATLIGKAIK
MHIQKIFVIITFSKHIVEQMVAFIGAVPGIGPSLQKPFQEYLEAQRQKLHHKSEMGTPOGENWLSWMFEKLVVVM
VCYFILSIINSMAQSYAKRIQQRLNSEETK

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FIGURE 2326

ACTCAGATCGCTTCTTGGTTGGTATGTTAGCGGCAGTGGCCGCCGGCGGAGCAGTCTGAGCCCCACGATGAGGCC
GGGGACGGGAGCTGAGCGTGGAGGCCTCATGATGGGGCACCCCTGGCATGCATTATGCCCCAATGGGAATGCACCC
TATGGGTCAGAGAGCGAATATGCCTCCTGTACCTCATGGAATGATGCCGCAGATGATGCCCCCTATGGGAGGGCC
ACCAATGGGACAAATGCCTGGAATGATGTCGTCAGTAATGCCTGGAATGATGATGTCTCATATGTCTCAGGCTTC
CATGCAGCCTGCCTTACCGCTAAACTAAACGGATATTCACCTCTGAAGTGGGATAAATGAAGATGTGGAGTTTCAT
GTTTCATGTAGGGCAGGTTTTGCCACTATAGTGAGTTTTGGTACCATACTTGAAAAAGTTGGCTTTCAGAGGGTT
TTGGTTTCCAGAATTGTGGGTAAAGGATTGAGGACCTTGTGTACAGTTGGTGACCATATAACATTTAACTACTC
CCGTAGTCTCGGTTGCTGATCTCTTTTACAATTTATAGCAAGCTCGGGGAAGTGAAGACCACTAAAAGTTTGTCTA
AGAATATGAGTCAGAGGCTTGAGGATTATGCATAGCAGCCAGGAGTAAATAGTATGGATGTAGCAGCAGGTACAG
CATCTGGTGCAAAATCAATGTGGACTGAACATAAATCACCTGATGGAAGGACTTACTACTACAACACTGAAACCA
AACAGTCTACCTGGGAGAAACCAGATGATCTTAAACACCTGCTGAGCAACTCTTATCTAAATGCCCCCTGGAAGG
AATACAAATCAGATTCTGGAAAGCCTTACTATTATAATTCTCAAACAAAAGAATCTCGCTGGGCCAAACCTAAAG
AACTTGAGGATCTTGAAGGATAACCAGAATACCATTGTTGCTGGAAGTCTTATTACAAAATCAAACCTGCATGCAA
TGATCAAAGCTGAAGAAAGCAGTAAGCAAGAAGAGTGACCACAACATCAACAGCCCCAGTCCCTACAACAGAAA
TTCCGACCACAATGAGCACCATGGCTGCTGCCGAAGCAGCAGCTGCTGTTGTTGCAGCAGCAGCAGCGGCAGCAG
CAGCAGCAGCTGCAGCCAATGCTAATGCTTCCACTTCTGCTTCTAATACTGTGAGTGGAACTGTTCCAGTTGTTT
CTGAGCCTGAAGTTACTTCCATTGTTGCTACTGTTGTAGATAATGAGAATACAGTAACCTATTTCAACTGAGGAAC
AAGCACAACCTTACTAGTACCCCTGCTATTTCAGGATCAAAGTGTGGAAGTATCCAGTAATACTGGAGAAGAAACAT
CTAAGCAAGAACTGTAGCTGATTTTACTCCCAAAAAAGAGAGGAGAGCAACCAAGCAAGAAAACATACA
CTTGAATACAAAGGAAGAGGCAAGCAAGCTTTTAAAGAATTATTGAAAGAAAAGCGGGTACCATCGAATGCTT
CATGGGAGCAGGCTATGAAAATGATTATTAATGATCCACGATACAGTGTCTTGGCAAAGTTAAGTAAAAAAGC
AAGCCTTTAATGCCTATAAAGTCCAGACAGAAAAA

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FIGURE 2327

MDVAAGTASGAKSMWTEHKSPDGRYYYYNTETKQSTWEKPDDLKTPAEQLLSKCPWKEYKSDSGKPYYYNSQTK
SRWAKPKELEDLEGYQNTIVAGSLITKSNLHAMIKAEESSKQEECTTTSTAPVPTTEIPTTMSTMAAAEAAA
AAAAAANANASTSASNTVSGTVPVPEPEVTSIVATVVDNENTVTISTEEQAQLTSTPAIQDQSVEVS
SNTGEETSKQETVADFTPKEEEESQPAKKTYTWNTKEEAKQAFKELLKEKRVPSNASWEQAMKMIINDPRYSAL
AKLSEKKQAFNAYKVQTEKKKK

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FIGURE 2328A

CGGCGCAGGCGGCGGCGTCCGAGGAGATTAAATCCAGAGACTGACTTCACTATAGAACCCACAGTTGTATCAATG
GTTGGGGAAAGATAGTGGCAACAGGCAAAGGAGAAACAGCTCTGACATACAAAGAAAATGAGTATGCTAAAGCCA
AGTGGGCTTAAGGCCCCACCAAGATCCTGAAGCCTGGAAGCACAGCTCTGAAGACACCTACGGCTGTTGTAGCT
CCAGTAGAAAAAACCATATCCAGTGAAAAAGCATCAAGCACTCCATCATCTGAGACTCAGGAGGAATTTGTGGAT
GACTTTCGAGTTGGGGAGCGAGTTTGGGTGAATGGAATAAGCCTGGATTATCCAGTTTCTTGGAGAAACCCAG
TTTGCACCAGGCCAGTGGGCTGGAATTGTTTATAGATGAACCCATAGGCAAGAACGATGGTTCGGTGGCAGGAGTT
CGGTATTTCCAGTGTGAACCTTTAAAGGGCATATTTACCCGACCTTCAAAGTTAAACAAGGAAGGTGCAAGCAGAA
GATGAAGCTAATGGCCTGCAGACAACGCCCGCTCCCGAGCTACTTCACCGCTGTGCACTTCTACGGCCAGCATG
GTGTCTTCTCCCCCTCCACCCCTTCAAACATCCCTCAGAAACCATCACAGCCAGCAGCAAAGGAACCTTCAGCT
ACGCCTCCGATCAGCAACCTTACAAAACTGCCAGTGAATCTATCTCCAACCTTTAGAGGCTGGCTCAATCAAG
AAAGGAGAAAGAGAGCTCAAAATCGGAGACAGAGTATTGGTTGGTGGCACTAAGGCTGGTGTAGTCCGGTTTCTT
GGGAGACCGACTTTGCCAAGGGGAGTGGTGTGGCGTGGAGTTAGATGAGCCACTTGGGAAGAATGATGGCGCT
GTTGCTGGAACAAGGTATTTTTCAGTGTCAACCCAAATATGGCTTGTTCGCTCCTGTCCACAAAGTTACCAAGATT
GGCTTCCCTTCCACTACACCAGCCAAAGCCAAGGCCAACGCAGTGAGGCGAGTGATGGCGACCACGTCCGCCAGC
CTGAAGCGCAGCCCTTCTGCCTCTTCCCTCAGCTCCATGAGCTCAGTGGCCTCCTCTGTGAGCAGCAGGCCAGT
CGGACAGGACTATTGACTGAAACCTCCTCCCGTTACGCCAGGAAGATCTCCGGTACCCTGCCCTCCAGGAGGCC
CTGAAGGAGAAGCAGCAGCACATTGAGCAGCTGCTGGCGGAACGGGATCTGGAGAGGGCGAGGTGGCCAAGGCC
ACGAGCCACGTGGGGGAGATAGAGCAGGAGCTAGCTCTGGCCCGGGACGGACATGACCAGCATGTCTCTGGAATTG
GAAGCCAAATGGACCAGCTGCGAACAATGGTGAAGCTGCTGACAGGGAGAAGGTGGAGCTTCTCAACCAGCTT
GAAGAGGAGAAAAGGAAGGTTGAGGACCTTCAGTTCCGGGTTGAAGAAGAATCAATTACCAAAGGTGATCTTGAG
ACGAGACCAAACCTGGAGCATGCCCGCATTAAAGAGCTTGAACAGAGCCTGCTCTTTGAAAAGACCAAAGCTGAC
AACTCCAGAGGGAGTTAGAAGACACTAGGGTGGCTACAGTTTCAGAAAAGTCACGTATAATGGAAGCTGGAGAAA
GACCTAGCATTGAGAGTACAGGAAGTAGCTGAGCTCCGAAGAAGGCTAGAGTCCAATAAGCCTGCTGGGGATGTG
GACATGTCACTTTCCCTTTTGCAAGAGATAAGCTCTTTGCAAGAAAAGTTAGAAGTCACCCGTAAGTACCACAG
AGAGAAAATAACTTCTCTGAAGGAGCATTTTGGAGCCCGGAAGAACTCATCAGAAGGAGATAAAGGCTCTGTAT
ACCGCCACGGAAAAGCTTTCCAAAGAGAACGAGTCATTGAAAAGCAAGCTGGAGCATGCCAACAAAGAGAACTCA
GATGTGATAGCTCTATGGAAGTCCAACTGGAGACTGCCATCGCATCCCACCAGCAGGCGATGGAAGAAGTGAAG
GTATCTTTAGCAAAAGGGCTTGGAAACAGAGACGGCAGAAATTTGCTGAAGTAAAAACACAAATAGAGAAAATGAGA
CTAGATTACCAACACGAAATAGAAAATTTGCAGAATCAACAAGACTCTGAACGGGCTGCCATGCTAAAGAGATG
GAAGCCTTGAGGGCTAACTGATGAAAGTTATTAAAGAAAAGGAAAACAGTCTGGAAGCCATCAGGTGCAAACTG
GACAAAGCAGAAGACCAGCATCTCGTAGAAATGGAAGACACGTTAAACAAATTACAGGAAGCTGAAATAAAGGTA
AAGGAGCTAGAGGTACTGCAAGCCAAATGCAATGAACAAACCAAGGTTATTGATAATTTTACATCACAGCTCAAG
GCTACTGAAGAAAAGCTCTTGGATCTTGATGCACTTCGGAAAGCCAGTTCGGAAGGTAAATCGGAAATGAAGAAA
CTTAGACAGCAGCTTGAGGCAGCTGAGAAACAGATTAAACATTAGAGATTGAAAAGAATGCTGAAAGTAGCAAG
GCTAGTAGCATTACCAGAGAGCTCCAGGGGAGAGAGCTAAAGCTTACTAACCTTCAGGAAAATTTGAGTGAAGTC
AGTCAAGTGAAGAGACTTTGAAAAAGAACTTCAGATTTTGAAGAAAAGTTTGTGAAAGCTTCAGAGGAGGCA
GTCTCTGTTTCAGAGAAGTATGCAAGAACTGTAAATAAGTTACACCAAAAGGAGGAACAGTTTAAATGCTGTCT
TCTGACTTGGAGAAGCTGAGAGAAAACCTTAGCAGATATGGAGGCAAAATTTAGAGAGAAAAGATGAGAGAGAAGAG
CAGCTGATAAAGGCAAAGGAAAACTGGAAAATGACATTGCAGAAATAATGAAGATGTCAGGAGATAACTCTTCT
CAGCTGACAAAAATGAACGATGAATTACGTCTGAAAGAAAGAGATGTAGAAGAATTACAGCTAAAACCTTACAAAG
GCTAATGAAAATGCAAGTTTTCTGCAAAAAGTATTGAGGACATGACTGTCAAAGCTGAACAGAGCCAGCAAGAA
GCAGCTAAAAAGCATGAGGAAGAAAAGAAAGAAATTTGGAGAGGAAATTTGTCGGACCTGGAAAAGAAAATGGAAACA
AGCCACAACCAAGTGTGAGGAGCTGAAAGCCAGGTATGAGAGAGCCACTTCTGAGACAAAAACCAAGCATGAAGAA
ATCCTACAGAACCTCCAGAAGACGCTGCTGGACACAGAGGACAAGCTGAAGGGCGCACGGGAGGAGAACAGTGGC
TTGCTGCAGGAGCTGAGGAGCTGAGAAAGCAAGCCGACAAAGCCAAAGCTGCTCAAACAGCGGAAGATGCCATG
CAGATAATGGAACAGATGACCAAGAGAAGACTGAGACTCTGGCCTCCTTGGAGGACACCAAGCAAAACAAATGCA
AACTACAGAATGAATTGGACACACTTAAAGAAAACAACTTGAAAAATGTGAAGAGCTGAACAAATCAAAGAA
CTCCTGACTGTAGAGAATCAAAAAATGGAAGAATTTAGGAAAGAAATAGAAACCTTAAAGCAGGCAGCAGCTCAG

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FIGURE 2328B

AAGTCCCAGCAGCTTTTCAGCGTTGCAAGAAGAGAACGTTAAACTTGCTGAGGAGCTGGGGAGAAGCAGGGACGAA
GTCACAAGTCATCAAAAGCTGGAAGAAGAAAGATCTGTGCTCAATAATCAGTTGTTAGAAATGAAAAAAGAGAA
TCCAAGTTCATAAAAGACGCAGATGAAGAGAAAGCTTCCTTGCAGAAATCCATCAGTATAACTAGTGCCTTACTC
ACAGAAAAGGATGCCGAGCTGGAGAAACTGAGAAATGAGGTCACAGTGCTCAGGGGAGAAAACGCCTCTGCCAAG
TCCTTGCAATTCAGTTGTTTCAGACTCTAGAGTCTGATAAGGTGAAGCTCGAGCTCAAGGTAAAGAACTTGGAGCTT
CAACTCAAAGAAAACAAGAGGCAGCTCAGCAGCTCCTCAGGTAATACAGACACTCAGGCAGACGAGGATGAAAGA
GCCCAGGAGAGTCAGATTGATTTTCTAAATTAGTAATAGTGGACCTTCAAAGGAAGAATCAAGACCTCAAGATG
AAGGTGGAGATGATGTCAGAAGCAGCCCTGAATGGGAACGGGGATGACCTAAACAATTATGACAGTGATGATCAG
GAGAAACAGTCCAAGAAGAAACCTCGCCTCTTCTGTGACATTTGTGACTGCTTTGATCTCCACGACACAGAGGAT
TGTCTACCCAGGCACAGATGTCAGAGGACCCTCCCCATTCCACACACCATGGCAGTCGGGGTGAGGAACGCCCA
TACTGTGAAATCTGTGAGATGTTTGGACACTGGGCCACCAACTGCAATGACGACGAAACCTTCTGATGAAGCCTC
CAGTGGAGAACTGGGCTTGCTCAGACGCACTCGCATTGACACAACGTAACACCAGCATTGTGTGTGCAGACTTCA
GGAGAACTCATGTTATTTTTTAACCCCGTCAACAAATCTAGGAAAATATTTTGATCTTCAACAAATTGCCCTTTA
GTCTCCCGTATGAGTTAGAATAATAAATATTTAGTAGGTGAGTTTTACCTCGAATTTTGTCTTCTGATTTTT
ACGTTTGAAGACATTGCACCAGATGCCATTACATTTATGGCCCCCGACCTTGTAGAAAAACCCCTACCCCTCAC
AATACCTTATTTAAGTAACTTTAAATTATGCCGTTACTTTTCATATTTGCACCTAAGATATTTCCAGGCTGCATT
TGTATATTTAGATTTTTTGGTTAAGCTTTGACACTGGAATGAGTTGAAAAATGTGCCATTTTGCATTTTCATCT
ACTCATTTAAAGTATTTTATTCTTATTCAAAGAAATATCTGAGCTCTTGCACCTACCTGTTATCAGTAGTGCCTT
TACTTCAGGCTTGATAATACTTAGGTGTGATTATAAAATCATGAAGCAGGTAAAGGGAGGGGCAAGCCCCAACT
GCTGTGGGGACATTTTATAATCTATATGCTGCACCCACTTAATCTACTGTGTGTTTTGTTTTATTAGTTTTGCAT
AATTTAGCTTCTATATATTGTATGTATATATTTTTTAAAAATCTATATTTGGGAAAAAACATACACAATGTG
TCTTCTTTTTGGACATTTACCTTTTTGAAAAAGAAACACTTAAATGATCATTAGGACATAACAGACTAGGCC
AGACATAGCATCTTGTTGGCTTTGCAACCATTTTCATTTGTTTGTCTTTTCTTTTATTCTTACCAGATTTAAATA
AAAGGAGGAATTTTCTCCAATTTTTTTTTCTTCTGCGAGGTATCCCAGCAGTCAATTAACAATAAGCCAGT
ATAAACACCTAAATAACCAATCTACAATCTCCCTTCACAAGTTTTTTTACTGTTTTTGTAGTGAATGTACGATGA
GAAATTCACGTTAATAATTCTGGATTTTCTTATCACAATAAGAAATGAAGGACCTCAAGCAGCTGAACAGT
TTATCGACAGTTTGAATCTATTTATCTTCATTTGAATGTCTTCTAGATATGTAAGGATCATAAAATGTATCTT
CCATGCTACATGTACAATAAGAACTTCTATAATTGTATATATGCCTTTGATGATTTTTCCCTCAAGATTATCAA
CTGTGTGTTTCAGACAGTGAATATTCAATCTGGTACCAGTTGAAATTTTTGGTTATAAATGTAATACGAATTGTTT
ACAAACAGAAAACATGTAAAGCAGTATTAAATTTGGCCAAACAAGTGTTCTGTATCTACTTTTAAATAAATGGTT
ATTCTTT

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FIGURE 2329

MSMLKPSGLKAPTKILKPGSTALKTPTAVVAPVEKTISSEKASSTPSSETQEEFVDDFRVGERVWVNGNKPFGFIQ
FLGETQFAPGQWAGIVLDEPIGKNDGSGVAGVRYFQCEPLKGIFTRPSKLTRKVQAEDEANGLQTPASRATSPLC
TSTASMVSSSPSTPSNIPQKPSQPAAKEPSATPPISNLTKTASESISNLSEAGSIKKGERELKIGDRVLVGGTKA
GVVRFLGETDFAKGEWCVELDEPLGKNDGAVAGTRYFQCQPKYGLFAPVHKVTKIGFPSTTPAKAKANAVRRVM
ATTASLKRSPSASSLSSMSSVASSVSSRPSTGLLTETSSRYARKISGTTALQEALKEKQQHIEQLLAERDLER
AEVAKATSHVGEIEQELALARDGHDQHVLELEAKMDQLRTMVEAADREKVELLNQLEEEKRKVEDLQFRVEEESI
TKGDLETQTKLEHARIKELEQSLLFEKTKADKLQRELEDTRVATVSEKSRIMELEKDLALRVQEAELRRRLESN
KPAGDVDMSSLQEISSLQEKLEVTRTDHQREITSLEHFGAREETHQKEIKALYTATEKLSKENESLKSLEH
ANKENSDVIALWKSLETAIASHQQAMEELKVSFSKGLGTETAFAELKTQIEKMRLDYQHEIENLQNOQDSERA
AHAKEMEALRAKLMKVIKEKENSLEAIRSKLDAEDQHLVEMEDTLNKLQAEIKVKELEVLQAKCNEQTKVIDN
FTSQLKATEEKLLDLALRKASSEKSEMKKLRQQLEAAEKQIKHLEIEKNAESSKASSITRELQGRELKLTLNLO
ENLSEVSQVKETLEKELQILKEKFAEASEEAVSVQRSMQETVNLKHQKEEQFNMLSSDLEKLRENLADEAKFRE
KDEREEQLIKAKEKLENDIAEIMKMSGDNSSQLTKMDELRLKERDVEELQLKLTKANENASFLQKSIEDMTVKA
EQSQQEAACKHEEEKKELERKLSLEKKMETSHNQCQELKARYERATSETTKHKEEILQNLQKTLTLDTEKLGKA
REENSGLLQELEELRKQADKAKAAQTAEDAMQIMEQMTKEKTETLASLEDTKQTNAKLQNELDTLKNNLKNVEE
LNKSKELLTVENQKMEEFRKEIETLKQAAAQKSQQLSALQEENVKLAEELGRSRDEVTSHQKLEERSVLNNQLL
EMKKRESKFIKDADEEKASLQKSISITSALLTEKDAELEKLNEVTVLRGENASAKSLHSVVQTLESQKVKLELK
VKNLELQKLENKRQLSSSSGNTDTQADEDERAQESQIDFLNSVIVDLQRKNQDLKMKVEMMSEALNGNGDDLNN
YDSDDQEKQSKKKPRLFCIDCFDLHDTEDCPTQAQMSDPPHSTHHGSRGEERPYPCEICEMFGHWATNCNDDE
TF

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FIGURE 2330A

GGTCTCACCATGAGCGGAAAGTGCTTGGCTCCAGGCCCGAAAGAAAGGACCAAGGCCAAGAAGGACAAAGCC
CAAAGGAAATCTGAACTCAGCACCAGGCTCTGCTCCCCACTCTGAGAGTGATCTACCAGAGCAGGAAGAGGAG
ATTCTGGGATCTGATGATGATGAGCAAGAAGATCCTAATGATTATTGTAAAGGAGGTTATCATCTTGTGAAAATT
GGAGATCTATTCAATGGGAGATACCATGTGATCCGAAAGTTAGGCTGGGGACACTTTTCAACAGTATGGTTATCA
TGGGATATTGAGGGGAAGAAATTTGTGGCAATGAAAGTAGTTAAAAGTGCTGAACATTACACTGAAACAGCACTA
GATGAAATCCGGTTGCTGAAGTCAGTTTCGCAATTCAGACCCTAATGATCCAAATAGAGAAATGGTTGTCAACTA
CTAGATGACTTTAAAATATCAGGAGTTAATGGAACACATATCTGCATGGTATTGGAAGTTTGGGGCATCATCTG
CTCAAGTGGATCATCAAATCCAATTATCAGGGGCTTCCACTGCCTTGTGTCAAAAAATTATTTCAGCAAGTGTTA
CAGGGTCTTGATTATTTACATACCAAGTGCCGTATCATCCACACTGACATTAAACCAGAGAATCTTATTGTCA
GTGAATGAGCAGTACATTTCGAGGCTGGCTGCAGAAGCAACAGAATGGCAGCGATCTGGAGCTCTCCGCCTTCC
GGATCTGCAGTCAGTACTGCTCCCCAGCCTAAACCAGCTGACAAAATGTCAAAGAATAAGAAGAAGAAATTGAAG
AAGAAGCAGAAGCGCCAGGCAGAATTACTAGAGAAGCGAATGCAGGAAATTGAGGAAATGGAGAAAGAGTCGGGC
CCTGGGCAAAAAAGACCAAACAAGCAAGAAGAAATCAGAGAGTCTGTTGAAAGACCTTGAAAGAGAACCCACCT
AATAAATGACCAAGAAAACTTGAAGAGTCAAGTACCATTGGCCAGGATCAAACGCTTATGGAACGTGATACA
GAGGGTGGTGACGAGAAATTAATTGCAATGGAGTGATTGAAGTCATTAATTATACTCAGAACAGTAATAATGAA
ACATTGAGACATAAAGAGGATCTACATAATGCTAATGACTGTGATGTCCAAAATTTGAATCAGGAATCTAGTTTC
CTAAGCTCCCCAAATGGAGACAGCAGCACATCTCAAGAAACAGACTCTTGACACCTATAACATCTGAGGTGTCA
GACACCATGGTGTGCCAGTCTTCTCAACTGTAGGTCAGTCATTTCAGTGAACAACACATTAGCCAACCTCAAGAA
AGCATTTCGGGCAGAGATACCTGTGAAGATGAACAAGAGCAAGAACAACGAGGACCTGGACAACAAAGGAAAA
TCCACGGCTGGAATTTTCTTGTAAATCCCCTTGAGCCAAAAATGCAGAAAAGCTCAAGGTGAAGATTGCTGAC
CTTGAAATGCTTGTGGCACAACATTTCACTGAAGATATTCAAACAAGGCAATATCGTTCCTTGGAAGTTCTA
ATCGGATCTGGCTATAATACCCCTGCTGACATTTGGAGCAGGCGATGCATGGCCTTTGAACTGGCCACAGGTGAC
TATTGTGTTGAACCTCATTTCAGGGGAAGAGTACACTCGAGATGAAGATCACATTGCATTGATCATAGAACTCTG
GGGAAGGTGCCTCGCAAGCTCATTGTGGCAGGAAAATATTCCAAGGAATTTTTCACCAAAAAGGTGACCTGAAA
CATATCAGCAAGCTGAAACCTTGGGGCCTTTTTGAGGTTCTAGTGAGAGATGAGTGGTGCAGGAAGAGGCA
GCTGGCTTCAGATTTCTTACTGCCATGTTGGAGCTGATCCCTGAGAAGAGAGCCACTGCCGCCGAGTGTCTC
CGGCACCTTGGCTTAACCTCTAAGCCCTGCCCAGCACCACAGCAGAGATCACACACTGACCCTCCGCCCTTCC
CCTTCAAGCATTTTCTCTTCCCTTTTCAGGGTGAAGCTCTTCTTCAAGAGTTTCTAGATCTTGTTTTTTTTTT
AATCCAACATGTTTCTTGGGTTTGCTTACTTGACCCTGTGGAGATCCCCACAGCCATTGGGCATCTTAGGTGAA
TTTGGCCTTGGTTGGGCTCTGCCAAAGACTAATGGACTAAAATGTGAAACAGCCTCTTGCCCTGTACCTTTCTCT
CCCATTAGGACATCCTTTAAATTATAAGCATCCTTTTTGAAAAGAGCTATGAAGGTGTATGAGCCCATCCTTTTA
TTCATTGACTCTAAGAGTCAAATTTCTAGTGCATATCCTATTGCCAGCATAAGGATGAGGAGGGGAAAGGGTC
TTAATTCTATGTACAGCAGAGACATTAACTTGCTGTGTCCGGGCTGCATCATCTTCTGGACTGTTTCTGTTGT
TCTCTGTGTTACATTTTTCTCTGCAACTTTTAAGCTACTGTCTTTTTTAAATAGCTATATGAACACCAAAATTTG
GGTACCATTTTATCACTGTTCAAAGCACTGTCAAATTCCTTTCATCCTTTAATAGTTAAGATCTTTGAATCTTCA
GTCTGATTTTTAATGTAAGCAAAAACAGAACCAATTGAATAGTAATTTCTTGAGAACCTCAGGTGTTCTATAAACA
GTCCTTTCTGTATGTCTTCTATTACCCTAAGACCAGAGTTATTTTGGTTGGTTGTTTTGTTTTATTTTTTGT
TTGTATCCATGGCTGGCACTTTACTCATTGCCTTGAGTTTATGCCCCATAACTAAAGGATCAGGATGATGGTA
GAACGGAGATCTGGGTTTCAGAGCTTTCCCATTTAAGAAAAATAGATCTTGAGATTCTGATTCTTTTCCAAACAG
TCCCCTGCTTTCATGTACAGCTTTTTCTTTACCTTACCCAAAAATCTGGCCTTGAAGCAGTTTTCTCTATGGCT
TTGCCCTTCTGATTTTCTCAGAGGCTCGAGTCTTAAATATAACCCCAAATGAAAGAACCAAGGGGAGGGGTGGGA
TGGCACTTTTTTTTGTGGTCTGTTTTGTTTTGTTTTTGGTTGGTTGGTTTCTTATTTTTTAAGATTAGCCAT
TCTCTGCTGCTATTTCCCTACATAATGTCAATTTTAAACCATAATTTTGACATGATTGAGATGTACTTGAGGCTT
TTTTGTTTTAATTGAGAAAAGACTTTGCAATTTTTTTTTTAGGATGAGCCTCTCCTAGACTTGACCTAGAATATT
ACATATTCCTCCAGTAAGTAATACTGAAGAGCAAAAGAGAGGCAGGATTGGGGTCACAGCCGCTTCTTCAGCATG
GACCAAGTGGGCCTTGGGGATTGCAGCGTTCTCGAAGTGGCTGTAGGACTCGAATTTACAGAAAGCCACAGAGGT
GCAACTTGAGGCTCTGCTAGCAAGCCACCAGTGAGGCTATTGGGTAACCACCTTCTATACAGGAGATTGGAATC
TACTTTGTCAATTATCCACCACAGTGACAAAGGAAAGTGGTGCCCTTATGCAATCCATTTAACTCATAAACATA

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FIGURE 2330B

TTACTCTGAGTAACTGGCCAGCCATTTCATCGGATCCTTCATTGGGTACTCCTGAAATCAGACATGTTCCCTGTAGA
AAGAATTTTAAGTTAGGCTTTCTATGCACCTATCAAGAATCAAGAGAATAGATTGTATCAAACAACGGCAGGGAA
ATCCTTCAGCAATTCTAATCCACTTTGGGTTTTTCAGCTGTTTTTACATCTAAAGCAATAGACTAGAACTGAATTA
TCTTCTACATAGTAAAAATCACAATTGTGGAATTACAGGAATTCTGGTGATATTAAGGTGAAATAACAAAACACAA
AAGGCCCTATTTTAACAGTTGATGTGACAGTAAGTTTTAATAGAACCTGTAACCTTCATTTTGGAATGCTTCTCC
ACCAAATAAGGGCTTTTTCCCCTATTTAAGGAGCCAGATGGATTGAAAGATGTGGAAATAGGCAGCTGTAGATCT
TGATCTTCCAGGTACCCCATGTACCTTTATTGAGCTTAATTATAATACTGTCAAATTGCCACGATCTCACTAAAG
GATTTCTATTTGCTGTCAGTTAAAAATAAAGCCCTAAATACATTTTTATTCTTTCTACTGAGGGCATTGTCTGTT
TTCTTTGTAAATGCCGTACAATAACAAATTATTTAATAACCTA .

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FIGURE 2331

MERKVLALQARKKRTKAKKDKAQRKSETQHRGSAPHSESDLPEQEEIILGSDDDEQEDPNDYCKGGYHLVKIGDL
FNTRYHVIRKLGWGHFSTVWLSWDIQGKKFVAMKVVKSAEHYTETALDEIRLLKSVRNSDPNDPNREMVVQLLDD
FKISGVNGTHICMVFEVLGHLLKWI IKSNYQGLPLPCVKKIIQQVLQGLDYLHTKCRIIHTDIKPENILLSVNE
QYIRRLAAEATEWQORSGAPPPSGSAVSTAPQPKPADKMSKNKKKKLKKKQKRQAELLEKRMQEIEEMEKESESGPGQ
KRPNKQEESESPVERPLKENPPNKMTQEKLEESSTIGQDQTLMERDTEGGAAEINCNGVIEVINYTQNSNNETLR
HKEDLHNANDCDVQNLNQESSFLSSQNGDSSTSQETDSCPTITSEVSDTMVCQSSSTVGQSFSEQHISQLQESIR
AEIPCEDEQEHEHNGPLDNKGKSTAGNFLVNPLEPKNAEKLKVKIADLGNACWHKHFTEDIQTRQYRSLEVLIGS
GYNTPADIWSTACMAFELATGDYLFEPHSGEEYTRDEDHIALIIELLGKVPRKLIVAGKYSKEFFTKKGDLKHIT
KLKPWGLFEVLVEKYEWSQEEAAGFTDFLLPMLELIPEKRATAAECLRHPWLNS

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FIGURE 2332

TTTCCTCTTTCTCTAAGAGTCTCTCTCTCCCTTTCCCTCTCTCTCCCCCAATCTGTCTTTCTAGCATGTTGCC
TTTTTCAACCACATTTGTGTTTCAGGTGTAGAGAGGAGAGAGAGTGAACAGGGAGCGGGGCTTTTGTCTGTTGGT
CTCCCTGGACTGAAGAGAGGGAGAATAGAAGCCCAAGACTAAGATTCTCAAAATGGTTTATTACCCAGAACTCTT
TGTCTGGGTCAGTCAAGAACCATTTCCAAACAAGGACATGGAGGGAAGGCTTCCTAAGGGAAGACTTCCTGTCCC
AAAGGAAGTGAACCGCAAGAAGAACGATGAGACAAACGCTGCCTCCCTGACTCCACTGGGCAGCAGTGAACCTCG
CTCCCCAAGATCAGTTACCTCCACTTTTTTTTAAATCGTAACACCTCCATTGTATTACATATGGTGTATGGGTAT
TGATGAGGTGATGGTATCATATATGGGATTTTTTTCTGTGTAAATCATCAAGTATAAGAAGAACTATGGGACTC
TGAGCCTTGCTTTAGAGAATTTACAGTGACAAATAGGTGTATCAAAACCAGTTTTTAATCATTCTGACTCAAGT
GAAAACGCTCAGAAATTTACACTGTGAATCCACGTTTACAACCCTTACAGGTGGGCCTTCAGGCCTGGTTCGCTA
CAACAATGCTCTCCACAACCTCAAACCTCCACCGCGCTCACACAACCGGTCCACTCCTGCCTTTTCACTCACACAG
CTCCCGACTGCTTCTTGACAGAGGCTGAGAGTCCCCCCCCACCTTTTTTTTTTCAATTTAGATGTAACAAACCTAG
TAGTTTTATGTTTATCAATTGTCTGTATATCTCTATATTTTATCCATGTACTCTTTTGATGTATAGAAGTAGTTG
AAACTCATTGTTTCCCTTGTTGTAAGTGACCGAGATGCTGCCACAGGACCTGAGACACTGATGAATGGTGTCTATTT
TGGACTTTCAACATGCTCCTTGCGGAGGTAGCTCTGATGGAGTTATTTTTTATTTCCATGTTCTAAGAAGGTGTT
GGTACTCTGTTTCCCTGAATGTTGTTCTCTAGACTGGATTGACTTGTTTTCTTGTGCTCTTCAGTGTGGCTTTCT
TCTCAGTGTGTAGGTTGAGCGAATGCTACCAGAGTGTGAGAGACCATTGTCTCGTTGGCTGGCGCTCACGGAC
ATGCAGTCACGGTAGCGGGAGCAATCACAAAACCTGTAATTTACTTACCAAATCTCTTCCCTTTCCGTAGCCTCGCC
TGCCTGACTTAGAGAAAAGAAAAGCAATAATTTTACAGGCATTTTGAGGTGTCTCTTTGGGTCTTTCTGTTTGAA
AGGATATTTGTCGAAAAAAGAGCAAAACCGTTTTAAATAAACTCCCCCTGGAAAAAACCACAAACACTGGCAT
CTGAGTAGGAATATGAAAATGACACCTTTTCCAAATATTAATTTGGAACAAGGTCTACAAAATCATGATACTT
TTTTAAAAGGCAGAGCATTCTTTTTTCGGCAATTTTGATAAGCAAGGTGTAGATTTACATTTTGTCTTGTCTCC
CAACGAAATGGATAAAACAAAATAAATTACCATCTACTCATGGAATGTTGTTGTGTTAGCCAGTCTGAAAGCCCA
CCTTAATTTTTATATAACTGTCTTTAGCTCTTCTTTTGACAGGGCAGGCCTTGTCTGAACTGTTTCGCTTCTGA
CTGTTAAACACCGATGACGCATGCACTGCACTTCTTCGTTTTCTTCTTGCTCCCCCATTGGCCTGAGTTTCTTGT
GCATTACTCTCTCCCTCCTTCGTTAGAATAGGTATATCAGCTGTGTAAATAGAGCAAGAAAACAGTATTCTGCA
TCTGTGGCATTATGTAGAGTTGCAGTTGTGTACTGCTGAAAATGCAGGCTTTTGTAAACAGTGTGATCTTTACTG
ATGCACTCATGACAAGTACCCAATGTATTTTAGCTATTTTAGTAGTATTTGTTCAATAAATACGCAAGCTGTAAG
GTAACGTCTG

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FIGURE 2333

MVYYPELFVWVSQEPFPNKDMEGRLPKGRLEVPKEVNRKKNDETNAASLTPLGSSELRSPRISYLHFF

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FIGURE 2334

AAATTCTTATTCTTAGTGAGAGACTGTAGTTAAAAAGGAAGGCTTTAGAACTTGGGTTCAGGAAGATGGAGATG
CGTCGGAAGCTCTTTGGCGGGGTGAGGAAGTTCAGAAAGTGTGCATTTTCCTTCTGGCATTAGGTCTGTCCG
TGTGATTTGGTGGTGCTTGGGTCATAAGCCTGATTAAAATTCAGGGACATGTACCACGGCGGCCAAAGCGGAATT
AATTTTTTTATATGGGGACTGGAGCGCTGAAAAGTTGTTCTGACCAGGCTCTAATGAGAAATTCCTCTCTCCCC
AGGTTATGAAGACAGTATGGAGTTTCCAGACCATAGTAGACATTTGCTACAGTGTCTGAGCGAGCAGAGACACCA
GGGTTTTCTTTGTGACTGCACTGTTCTGGTGGGAGATGCCAGTTCGAGCGCACCGAGCTGTACTGGCTTCATG
CAGCATGTATTTCCACCTCTTTTACAAGGACCAGCTGGACAAAAGAGACATTGTTTCATCTGAACAGCGACATTGT
TACAGCCCCCGCTTTTCGCTCTCTCTGCTTGAATTCATGTATGAAGGGAACTCCAGTTCAAAGACTTGCCCATGGA
AGACGTGCTAGCAGCTGCCAGTTATCTCCACATGTATGACATTGTCAAAGTCTGCAAAAAGAAGCTGAAAGAGAA
AGCCACCACGGAGGCAGACAGCACCAAAAAGGAAGAAGATGCTTCAAGTTGTTCCGACAAAAGTCGAGAGTCTCTC
CGATGGCAGCAGCCACATAGCAGGCGATTGCCCCAGTGATGAAGATGAAGGAGAAGATGAAAAATTGAACATCCT
GCCAGCAAAAAGGGACTTGGCGGCCGAGCCTGGGAACATGTGGATGCGATTGCCCTCAGACTCAGCAGGCATCCC
CCAGGCTGGCGGAGAGGCAGAGCCACACGCCACAGCAGCTGGAAAAACAGTAGCCAGCCCCCTGCAGCTCAACAGA
GTCTTTGTCCCAGAGGTCTGTACCTCCGTGAGGGATTCCGGCAGATGTTGACTGTGTGCTGGACCTGTCTGTCAA
GTCCAGCCTTTTCAAGGAGTTGAAAATCTGAACAGCTCTTATTTCTCTTACAGGACGTGCTGAGAAGCAACCTGGT
GCAGGTGAAGGTGGAGAAAAGAGGCTTCTGTGATGAGAGTGATGTTGGCACTAATGACTATGACATGGAACATAG
CACTGTGAAAGAAAGTGTGAGCACTAATAACAGGGTACAGTATGAGCCGGCCCATCTGGCTCCCCTGAGGGAGGA
CTCGGTCTTGAGGGAGCTGGACCGGGAGGACAAAGCCAGTGATGATGAGATGATGACCCAGAGAGCGAGCGTGT
CCAGGTGGAGGGAGGCATGGAGAGCAGTCTGCTCCCCTACGTCTCCAACATCCTGAGCCCCGCGGGCCAGATCTT
CATGTGCCCCCTGTGCAACAAGGTCTTCCCCAGCCCCCACATCCTGCAGATCCACCTGAGCACGCACTTCCGCGA
GCAGGACGGCATCCGCAGCAAGCCCGCCGCGATGTCAACGTGCCCACGTGCTCGCTGTGTGGGAAGACTTTCTC
TTGCATGTACACCCTCAAGCGCCACGAGAGGACTCACTCGGGGGAGAAGCCCTACACATGCACCCAGTGCGGCAA
GAGCTTCCAGTACTCGCACAACTGAGCCGCCATGCCGTGGTGCACACCCGCGAGAAGCCGCACGCTGCAAGTG
GTGCGAGCGCAGGTTACGCACTCCGGGGACCTGTACAGACACATTGCAAGTTCCACTGTGAGTTGGTGAAGTCTC
CTTGTGCGTCAAAAGCGAAGCACTGAGCTTGCTTACTGTGAGAGCTGGACCTTAGAAGATAGCTCTCAAGAACT
TTGGAAATATATTTATATATATATAAATAATATATATATATATATATATATAAATAGATCTCTATATAGTTGT
GGTACGGTCTAAAAGCAGTCTTGTTTCTTGGAATAAAAAGTTGGGATATTAAGTTGTTTTTGCACCTTTAGAAT

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FIGURE 2335

MEFPDHSRHLQCLSEQRHQGFCDCTVLVGDAQFRAHRAVLASCSMYFHLFYKDQLDKRDIVHLNSDIVTAPAF
ALLLEFMYEGKLQFKDLPIEDVLAAASYLHMYDIVKVCKKKLKEKATTEADSTKKEEDASSCSDKVESLSDGSSH
IAGDLPSDEDEGEDEKLNILPSKRDIAAEPGNMWMRLPSDSAGIPQAGGEAEPHATAAGKTVASPCSTESLSQR
SVTSVRDSADVDCVLDLSVKSSLSGVENLNSSYFSSQDVLRNLVQVKVEKEASCDESVDVGTNDYDMEHSTVKES
VSTNNRVQYEPAPHLAPLREDSVLRELDREDKASDDEMTPESERVQVEGGMESLLPYVSNILSPAGQIFMCPLC
NKVFPSPHILQIHLSTHFREQDGIRSKPAADVNVPTCSLCGKTFSCMYTLKRHERTHSGEKPYTCTQCGKSFQYS
HNLSRHAVVHTREKPHACKWCERRFTQSGDLYRHIRKFHCELVNSLSVKSEALSLPTVRDWTLEDSSQELWK

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FIGURE 2336A

AGCGCCCGCCGCGTCCGGGGCCGGCTGGTGCGGAGACGCCCGAGAGTTGTGAAGGGCGCGGGTGGGGGGCGC
TGCCGGCCTCGTGGGTACGTTCTGTCCGCGTCTGTCCCAGAGCTGGGGCCGAGGAGCGGAGGCAAGAGGGGCAC
TATGGCAGACAAAGTTAGGAGGCAGAGGCCGAGGAGCGAGTCTGTTGGGCTTGGTGGCTGTGCTCTTGGCAGA
CCTGTTGGCACTGAGTGATACACTGGCAGTGATGTCTGTGGACCTGGGCAGTGAGTCCATGAAGGTGGCCATTGT
CAAACCTGGAGTGCCCATGGAAATTGTCTTGAATAAGGAATCTCGGAGGAAAAACACCGGTGATCGTGACCCGTGAA
AGAAAAATGAAAGATTCTTGGAGACAGTGACAGCAAGCATGGCGATTAAAGAATCCAAAGGCTACGCTACGTTACTT
CCAGCACCTCCTGGGGAAGCAGGCAGATAACCCCCATGTAGCTCTTTACCAGGCCCGCTTCCCGGAGCACGAGCT
GACTTTTCGACCCACAGAGGCAGACTGTGCACTTTAGATCAGCTCGCAGCTGCAGTTCTCACCTGAGGAAGTGT
GGGCATGGTTCTCAATTATCTCGTTCTTAGCTGAAGATTTTGCAGAGCAGCCCATCAAGGATGCAGTGATCAC
CGTGCCAGTCTTCTTCAACCAGGCCGAGCGCCGAGCTGTGTGCAGGCTGCTCGTATGGCTGGCCTCAAAGTGCT
GCAGCTCATCAATGACAACACCGCCACTGCCCTCAGCTATGGTGTCTTCCGCCGGAAGATATTAACACCACTGC
CCAGAATATCATGTTCTATGACATGGGCTCAGGCAGCACCGTATGCACCAATTGTGACCTACCAGATGGTGAAGAC
TAAGGAAGCTGGGATGCAGCCACAGCTGCAGATCCGGGGAGTAGGATTTGACCGTACCCTGGGGGGCCTGGAGAT
GGAGCTCCGGCTTCGAGAACGCCCTGGCTGGGCTTTTCAATGAGCAGCGCAAGGGTCAGAGAGCAAAGGATGTGCG
GGAGAACCCGCGTGCCATGGCCAAGCTGCTGCGTGAGGCTAATCGGCTCAAAACCGTCTCAGTGCCAACGCTGA
CCACATGGCAGAGATTGAAGGCCTGATGGATGATGTGGACTTCAAGGCAAAAGTGACTCGTGTGGAATTTGAGGA
GTTGTGTGCAGACTTGTGTTGAGCGGGTGCCCTGGGCTGTACAGCAGGCCCTCCAGAGTGCCGAAATGAGTCTGGA
TGAGATTGAGCAGGTGATCCTGGTGGGTGGGGCCACTCGGGTCCCCAGAGTTCAGGAGGTGCTGCTGAAGGCCGT
GGGCAAGGAGGAGCTGGGGAAGAATCAATGCAGATGAAGCAGCGCCATGGGGGAGTGATACCAGGCAGCTGC
GCTCAGCAAAGCCTTTAAAGTGAAGCCATTGTGCTCCGAGATGCAGTGGTCTACCCCATCTGGTGGAGTTTAC
GAGGGAGGTGGAGGAGGAGCCTGGGATTACAGCCTGAAGCACAATAAACGGGTACTCTTCTCTCGGATGGGGCC
CTACCCTCAACGCAAAGTCTACACCTTTAACCCTACAGCCATGATTTCAACTTCCACATCAACTACGGCGACCT
GGGCTTCTGGGGCCTGAAGATCTTGGGTATTTGGCTCCCAGAACTTGACCACAGTGAAGCTAAAAGGGGTGGG
TGACAGCTTCAAGAAGTATCTGACTACGAGTCCAAGGGCATCAAGGCTCACTTCAACCTGGATGAGAGTGGCGT
GCTCAGTCTAGACAGGGTGGAGTCTGTATTTGAGACACTGGTAGAGGACAGCGCAGAAGAGGAATCTACTCTCAC
CAAACCTGGCAACACCATTTCCAGCCTGTTTGGAGGCGGTACCACACCAGATGCCAAGGAGAATGGTACTGATAC
TGTCAGGAGGAAGAGGAGAGCCCTGCAGAGGGGAGCAAGGACGAGCCTGGGGAGCAGGTGGAGCTCAAGGAGGA
AGCTGAGGCCCCAGTGAGGATGGCTCTCAGCCCCACCCCTGAACCTAAGGGAGATGCAACCCCTGAGGGAGA
AAAGGCCACAGAAAAAGAAATGGGGACAAGTCTGAGGCCAGAAACCAAGTGAGAAGGCAGAGGCAGGGCCTGA
GGGCGTGCCTCCAGCCCCAGAGGAGAGAAGAAGCAGAAGCCCGCCAGGAAGCGGCGAATGGTAGAGGAGATCGG
GGTGGAGCTGGTTGTTCTGGACCTGCCTGACTTGCCAGAGGATAAGCTGGCTCAGTCGGTGCAGAACTTCAGGA
CTTGACACTCCGAGACCTGGAGAAGCAGGAACGGGAAAAAGCTGCCAACAGCTTGAAGCGTTTCAATTTGAGAC
CCAGGACAAGCTGTACCAGCCCCAGTACCAGGAAGTGTCCACAGAGGAGCAGCGTGAGGAGATCTCTGGGAAGCT
CAGCGCCGCATCCACCTGGCTGGAGGATGAGGGTGTGGAGCCACCACAGTGATGTTGAAGGAGAAGCTGGCTGA
GCTGAGGAAGCTGTGCCAAGGGCTGTTTTTTCGGGTAGAGGAGCGCAAGAAGTGGCCCGAACGGCTGTCTGCCCT
CGATAATCTCCTCAACCATTCAGCATGTTCTTCAAGGGGGCCCGGCTCATCCAGAGATGGACCAGATCTTCAC
TGAGGTGGAGATGACAACGTTAGAGAAAGTCATCAATGAGACCTGGGCTTGAAGAATGCAACTCTGGCCGAGCA
GGCTAAGCTGCCCGCCACAGAGAAGCCTGTGTTGCTCTCAAAGACATTGAAGCTAAGATGATGGCCCTGGACCG
AGAGGTGCAGTATCTGCTCAATAAGGCCAAGTTTACCAAGCCCCGGCCCCGGCCTAAGGACAAGAATGGGACCCG
GGCAGAGCCACCCCTCAATGCCAGTGCCAGTGACCAGGGGGAGAAGGTATCCCTCCAGCAGGCCAGACTGAAGA
TGCAGAGCCCATTTAGAACCTGAGAAAGTAGAGACTGGATCCGAGCCAGGAGACACTGACCTTTGGAGTTAGG
AGGTCTTGAGCAGAACCTGAACAGAAAGAACAATCGACAGGACAGAAGCGGCCTTTGAAGAACGACGAACATA
ACCCCCACCTCTGTTTTCCCATTCATCTCACCCCTTCCCCACCACCTTCTATTTATTAACATCGAGGGTTG
GGGGAGGGGTTGGTCTGCCCTCGGCTGGAGTCTCTTCTCACCCCTGTGATTTGGAGGTGTGGAGAAGGGGAAG
GGAGGGACAGCTCACTGGTCTCTTCTGCAGTACCTCTGTGTTAAAAATGAAACTGTTCTCTCCCCAGCCCCA
CTCCCTGTTCCCTACCCATATAGGCCCTAAATTTGGGAAAAATCACTATTAATTTCTGAATCCTTTGCCTGTGGG
TAGGAAGAGAATGGCTGCCAGTGGCTGATGGGTCCCGGTGATGGGAAGGGTATCAGGTTGCTGGGGAGTTTCCAC
TCTTCTCTGGTGATTGTTCTCTCCCTCCCTTCTCTCCACCATGCGATGAGCATCCTTTACGGCCAGTGTCTGC

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FIGURE 2336B

AGAGCCTCAGTTACCAGGTTTGGTTTTCTGAGTGCCTATCTGTGCTCTTTCCCTCCCTCTGCGGGCTTCTCTTGCTC
TGAGCCTCCCTTCCCCATTCCCATGCAGCTCCTTTCCCCCTGGGTTTCCTTGGCTTCCTGCAGCAAATTGGGCAG
TTCTCTGCCCCCTTGCCATAAAAGCCTGTACCTCTGGATTGGCGGAAGTAAATCTGGAAGGATTCTCACTCGTATTT
CCCACCCCTAGTGGCCAGAGGAGGGAGGGGCACAGTGAAGAAGGGAGCCCACCACCTCTCCGAAGAGGAAAGCCA
CGTAGAGTGGTTGGCATGGGGTGCCAGCATCGTGCAAGCTCTGTGATAATCTGCATCTTCCCAGCAGCCTGGTAC
CCCAGGTTCTGTAACTCCCTGCCTCCTCCTCTCTTCTGCTGTTCTGCTCCTCCCAGACAGAGCCTTTCCCTCAC
CCCCTGACCCCTGGGCTGACCAAAATGTGCTTTCTACTGTGAGTCCCTATCCCAAGATCCTGGGGAAAGGAGAG
ACCATGGTGTGAATGTAGAGATGCCACCTCCCTCTCTCTGAGGCAGGCCTGTGGATGAAGGAGGAGGGTCAGGGC
TGGCCTTCCTCTGTGCATCACTCTGCTAGGTTGGGGGCCCCGACCCACCATACTACGCCTAGGGAGCCCGTCC
TCCAGTATTCGTCTGTAGCAGGAGCTAGGGCTGCTGCCTCAGCTCCAAGACAAGAATGAACCTGGCTGTGTCAG
TCATTTTGTCTTTTCCTTTTTTTTTTTTTTTGGCACATTGGCAGAGATGGGACCTAAGGGTCCCACCCCTCACCCCA
CCCCACCTCTTCTGTATGTTTGAATTCTTTAGTAGCTGTTGATGCTGGTTGGACAGGTTTGAGTCAAATTGTA
CTTTGCTCCATTGTTAATTGAGAACTGTTTCAATAAAATATTCTTTTCTAC

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FIGURE 2337

MADKVRQRPRRRVCWALVAVLLADLLALSDTLAVMSVDLGSESMKVAIVKPGVPMIIVLNKESRRKTPVIVTLK
ENERFFGDSAASMAIKNPKATLRYFQHLLGKQADNPHVALYQARFPEHELT FDPQRQTVHFQISSQLQFSPEEVL
GMVLNYSRSLAEDFAEQPIKDAVITVPVFFNQAERRAVLQAARMAGLKVLQLINDNTATALS YGVFRRKDINTTA
QNIMFYDMGSGSTVCTIVTYQMVKTKEAGMQPQLQIRGVGFDR TLGGLEME LRLRERLAGLFNEQRKGQRAKDVR
ENPRAMAKLLREANRLKTVLSANADHMAQIEGLMDDVDFKAKVTRVEFEELCADL FERVPGVPVQQALQSAEMSLD
EIEQVILVGGATRVP RVQEVL LKAVGKEELGKNINADEAAAMGAVYQAAALS KAFKVKPFVVRDAVVYPILVEFT
REVEEEPGIHSLKHNRVLF SRMGYPYQPKVITFNRYSHDFNFHINYGDLGFLGPEDLRVFGSQNLTTVKLKGVG
DSFKKYPDYESKGIKAHFNLD ESVGLSLDRVESVFETLVEDSAEEESTLTKLGNTISSLFGGGTTPDAKENGTD T
VQEEEESPAEGSKDEPGEQVELKEEAEAPVEDGSQPPPEPKGDATPEGEKATEKENGDKSEAQKPSKAEAGPE
GVAPAPEGEKKQK PARKRRMV E EIGVELVVL DLPDLPEDKLAQSVQKLQDLTLRDLEKQEREKAANSLEAFIFET
QDKLYQPEYQEVSTEEQREEISGKLSAASTWLEDEGVGATTVM LKEKLAELRKLCQGLFFRVEERKKWPERLSAL
DNLLNHSSMFLKGARLIPEMDQIFTEVEMTTLEKVINETWAWKNATLAEQAKLPATEKPVLLSKDIEAKMMALDR
EVQYLLNKAKFTKPRPRPKDKNGTRAEPPLNASASDQGEKVIPPAGQTEDAEP ISEPEKVETGSEPGDTEPLELG
GPGAEP EQKEQSTGQKRPLKNDEL

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FIGURE 2338

CCAAATTATTGTATCTCACAGTGTGGGGAAAAGGAAGAGAGATCAGATTGTTACTGTGTCTGTGTAGAAAGAAGT
AGACATAGGAGACTCCATTTTGTATGTACTAAGAAAAATTCTTCTGCCTTGAGATTCTGTTAATCTATAACCTT
ACCCCCAACCCCGTGCTCTCTGAAACATGTGCTGTGTCCTCTCAGAATTGCCTGTTTTTTGTGCTCCTCCGAGC
TCGCTGTTCGTCCGGGTTTTTTACGTTTTTAATTTCCAGGACTTGAAGTCCATGTCCTCTGAAGAAGGAAAGCTC
TTCGTGGGAGGGCTCAACTTTAACACCGACGAGCAGGCAGTGGAAAGACCACTTCAGCAGTTTCGGACCTATCTCT
GAGGTGGTCTGTGTCAAGGACCGGGAGACTCAGCGGTCCAGGGGTTTTGGTTTCATCACCTTCACCAACCCAGAG
CATGCTTCAGTTGCCATGAGAGCCATGAACGGAGAGTCTCTGGATGGTCTCAGATCCGTGTGGATCATGCAGGC
AAGTCTGCTCGGGGAACAGAGGAGGTGGCTTTGGGGCCCATGGGCGTGGTTCGCAGCTACTCTAGAGGTGGTGGG
GACCAGGGCTATGGGAGTGGCAGGTATTATGACAGTGCACCTGGAGGGTATGGATATGGATATGGACGTTCCAGA
GACTATAATGGCAGAAACCAGGGTGGTTATGACCGCTACTCAGGAGGAAATTACAGAGACAATTATGACAACTGA

AATGAGACATGCACATAATATAGATACACAAGGAATAATTTCTGATCCAGGATCGTCCTTCCAAATGGCTGTATT
TATAAAGGTTTTTGGAGCTGCACTGAAGCATCTTATTTTATAGTATATCAACCTTTTGTTTTTAAATTGACCTGC
CAAGGTAGCTGAAGACCTTTTAGACAGTTCCCATCTTTTTTTTTAAATTTTTCTGCCTATTTAAAGACAAATTA
TGGGACGTTTGTAGAACCTGAGTATTTTTCTTTTTACCAGTTTTTTAGTTTGAGCTCTTAGGTTTATTGGAGCTA
GCAATAATTGGTTCTGGCAAGTTTGGCCAGACTGACTTCAAAAAATTAATGTGTATCCAGGGACATTTTAAACC
TGTACACAGTGTATTATTGTGGTTAGGAAGCAATTTCCCAATGTACCTATAAGAAATGTGCATCAAGCCAGCCTGA
CCAACATGGTGAAACCCCATCTGTACTAAACATAAAAAAATTAGCCTGGCATGGTGGTGTACGCCTGTAATCCCA
GTGACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCGGAGGTTGCAGTGAGCTAAGATCGCGCCA
CTGTACTCCAGCCTGGACAACAGCGAGAGCTCCATCTCAAAAAAAAAGGAAATGTGTATCAAGAACATGATTAT
CCAGCGGTATTTCTAATTCAGATCATCAAACTGATTATATAGAAGAGTTGGCTTTAAATGTTGCAAATGTGCG
ATGTTGAGAATGGTATTTCTTCAGTTTTATTTTAGGATTTCTATAGTTTGATGATC

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FIGURE 2339

MSSEEGKLFVGGGLNFNTDEQALEDHFSSFGPISEVVVKDRETQSRGFGFITFTNPEHASVAMRAMNGESLDGR
QIRVDHAGKSARGTRGGGFGAHGRGRSYSRGGGDQGYGSGRYYDSRPGGYGYGYGRSRDYNGRNQGGYDRYSGGN
YRDNYDN

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FIGURE 2340

AAAAGCAAGCCAGGAGGTGCTTGCGGCCGCTTCTAGTAGTTTCCAGGCGCTGCCGGGCGGCTGGCACTAAGCGGT
CCTGAGGCTGTGGCTACGGCTGCTCCGGAGCTGGTGGCGCCGCGATAGGAGAGCCGATGGCCAAGTGGGGTGAGG
GAGACCCACGCTGGATCGTGGAGGAGCGGGCGGACGCCACCAACGTCAACAACCTGGCACTGGACGGAGAGAGATG
CTTCAAATTGGTCCACGGATAAGCTGAAAACACTGTTCTTGGCAGTGCAGGTTCAAAATGAAGAAGGCAAGTGTG
AGGTGACGGAAGTGAGTAAGCTTGATGGAGAGGCATCCATTAACAATCGCAAAGGGAACTTATCTTCTTTTATG
AATGGAGCGTCAAACCTAACTGGACAGGTACTTCTAAGTCAGGAGTACAGTACAAAGGACATGTGGAGATCCCCA
ATTTGTCTGATGAAAACAGCGTGGATGAAGTGGAGATTAGTGTGAGCCTTGCCAAAGATGAGCCTGACACAAATC
TCGTGGCCTTAATGAAGGAAGAAGGGGTGAACTTCTAAGAGAAGCAATGGGAATTTACATCAGCACCCCTCAAAA
CAGAGTTACCCAGGGCATGATCTTACCTACAATGAATGGAGAGTCAGTAGACCCAGTGGGGCAGCCAGCACTGA
AACTGAGGAGCGCAAGGCTAAGCCTGCTCCTTCAAAAACCCAGGCCAGACCTGTTGGAGTCAAAATCCCCACTT
GTAAGATCACTCTTAAGGAAACCTTCCTGACGTCACCAGAGGAGCTCTATAGAGTGTTTACCACCCAGAGCTGG
TGCAGGCCTTTACCCATGCTCCTGCAACATTAGAAGCAGACAGAGGTGGAAAGTTCCACATGGTAGATGGCAACG
TCTCTGGGGAATTTACTGATCTGGTCCCTGAGAAACATATTGTGATGAAGTGGAGGTTAAATCTTGGCCAGAGG
GACACTTTGCCACCATCACCTTGACCTTCATCGACAAGAACGGAGAGACTGAGCTGTGCATGGAAGGTCGAGGCA
TCCCTGCTCCTGAGGAAGAGCGGACACGACAGGGCTGGCAGCGGTACTACTTTGAGGGCATTAAACAGACCTTTG
GCTATGGCGCACGCTTATTTTAGGGCCAGCGGCAGGGGACTCCAGCCTGCTGGACACTTCAGTCCAGCTCTCTCC
TGACTGGGGCTTGCGACTCACAGGATTGCATCGTCCAGCTGCTAACTTGGGGCCGGGGCCCTCCCTTCCACAT
ATACCTTGGGTTTGTGATGTTTTCTGCTGGGTGGGTTCAGAGGGCAATTTCTCTTTTATGTGTACATATGCTAA
ATAAACATAATTTAAAAAACAAAA

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FIGURE 2341

MAKWGE G D P R W I V E E R A D A T N V N N W H W T E R D A S N W S T D K L K T L F L A V Q V Q N E E G K C E V T E V S K L D G E A S I N N R K G
K L I F F Y E W S V K L N W T G T S K S G V Q Y K G H V E I P N L S D E N S V D E V E I S V S L A K D E P D T N L V A L M K E E G V K L L R E A M G I
Y I S T L K T E F T Q G M I L P T M N G E S V D P V G Q P A L K T E E R K A K P A P S K T Q A R P V G V K I P T C K I T L K E T F L T S P E E L Y R V
F T T Q E L V Q A F T H A P A T L E A D R G G K F H M V D G N V S G E F T D L V P E K H I V M K W R F K S W P E G H F A T I T L T F I D K N G E T E L
C M E G R G I P A P E E E R T R Q G W Q R Y Y F E G I K Q T F G Y G A R L F

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FIGURE 2342

GGGGCCTGGTGTGATTCCGTCTCGCGGTTGTTCTCTGGAGCAGCGTTCTTTTATCTCCGTCCGCCTTCTCTCC
TACCTAAGTGCGTGCCGCCACCCGATGGAAGATTTCGATGGACATGGACATGAGCCCCCTGAGGCCCCAGAAGTAT
CTTTTCGGTTGTGAAGTAAAGGCCGACAAAGATTATCACTTTAAGGTGGATAATGATGAAAATGAGCACCAGTTA
TCTTTAAGAACGGTCAGTTTAGGGGCTGGTGCAAAGGATGAGTTGCACATTGTTGAAGCAGAGGCAATGAATTAC
GAAGGCAGTCCAATTAAAGTAACACTGGCAACTTTGAAAATGTCTGTACAGCCAACGGTTTCCCTTGGGGGCTTT
GAAATAACACCACCAGTGGTCTTAAGGTTGAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAGCACTTAGTA
GCTGTGGAGGAAGATGCAGAGTCAGAAGATGAAGAGGAGGAGGATGTGAACTCTTAAGTATATCTGGAAAGCGG
TCTGCCCTGGAGGTGGTAGCAAGGTTCCACAGAAAAAGTAAAACTTGCTGCTGATGAAGATGATGACGATGAT
GATGAAGAGGATGATGATGAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
AAGAAATCTATACGAGATACTCCAGCCAAAAATGCACAAAAGTCAAATCAGAATGGAAAAGACTCAAACCATCA
TCAACACCAAGATCAAAGGACAAGAATCCTTCAAGAAACAGGAAAAAACTCCTAAAAACACCAAAGGACCTAGT
TCTGTAGAAGACATTAAAGCAAAAATGCAAGCAAGTATAGAAAAAGGTGGTTCTCTTCCCAAAGTGAAGCCAAA
TTCATCAATTATGTGAAGAATTGCTTCCGGATGACTGACCAAGAGGCTATTCAAGATCTCTGGCAGTGGAGGAAG
TCTCTTTAAGAAAATAGTTTAAACAATTTGTTAAAAAATTTTCCGTCTTATTTTCAATTTCTGTAACAGTTGATATC
TGGCTGTCCTTTTTATAATGCAGAGTGAGAAGTTTCCCTACCGTGTGATAAATGTTGTCCAGGTTCTATTGCC
AAGAATGTGTTGTCCAAAATGCCTGTTTAGTTTTTAAAGATGGAAGTCCACCCTTTGCTTGGTTTTAAGTATGTA
TGGAATGTTATGATAGGACATAGTAGTAGCGGTGGTCAGACATGGAAATGGTGGGAGACAAAAATACACATGTG
AAATAAACTCAGTATTTTAATAAAGTAAAAAAGTAAAAAAGTAAAAAAGTAAAAAAGTAAAAAAGTAAAAAAGT

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FIGURE 2343

MEDSMMDMSPLRPQNYLFGCELKADKDYHFKVDNDENEHQLSLRTVSLGAGAKDELHIVEAEAMNYEGSPIKVT
LATLKMSVQPTVSLGGFEITPPVVLRLKCGSGPVHISGQHLVAVEEDAEESEDEEEEDVKLLSISGKRSAPGGGSK
VPQKKVKLAADDDDDDEDDDDDDDDFDDEEAEEKAPVKKSIRDTPAKNAQKSNQNGKDSKPSSTPRSKGQ
ESFKKQEKTPKTPKGPSSVEDIKAKMQASIEKGGSLPKVEAKFINYVKNCFRMTDQEAIQDLWQWRKSL

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FIGURE 2344

CCGCCCTGGAGGCCGAGCCACTGGGCCTGCGCGCCTCGGCAGCGAGCAGCCGCTTTGCTCGCGTGCAGGAGGCT
GTTGCTACCTCACACCCCGGCTGGCGCTGTGGCCTCGCTTAGCTCTACCGTTTAGCACCCGGCGACATGCACC
CGGTCGGTTTTCCGCCAGGATGCGGGAGAGTTGGGGCAAGCTACCTGCGACAGCTTGAACTTTTCTAGGGATTCC
GCTCCACCCGCGGTTAGAGCGTATTGCTCATTAAATCCGAGACCTGTGTGCTTGCTACTGAAATAAAGAAGTA
TTTTTTGCCCCAGAGTCTTTTTAGGACGTTATGACTTTTTCTCCTTTGCAAGACTGCAAAAACTGACAAGAAGAC
AAAACCTTTCCCACTCCAGGGACCGGCTTGTCTTGAGTTTGGCTAGTAAAGGCTAGCAAGTGAGGCTTTGTCTC
TGCATCCCGTTCCCCCTAACATCCTCAGAGAACCTTCGTTTCTAGAATCTTTCTAGTATTCAGAGACTTCTCCAG
GGTCATGATCCCAAAGGCTTAACCCGTTTACAAGGAGAGAGTTGTCTCCTGACGCCCAAAATGCGCAGCTAAAATG
GAGATAACTTTAAGCTCCAACACTGAAGCTTCTCCAAGCAAGAGAGACACATAATAGCCAACTAGAAGAGAAA
CGGGGCCCTCCTCTGCAAAAAAAGTGGCCAGATCCTGAGCTCTGCCGCCAGAGCTTCAGACGCTTTTGTATCA
GAGGTGTCTGGACCCCAAGAGGCGCTCTCCAGCTCCGACAGCTCTGCCGTGAGTGGTTGCAACCCGAGCTGCAC
ACCAAGGAGCAGATTTTGGAGCTTCTGGTGATGGAGCAGTTCTGACCATCCTGCCCCCGGAGATCCAGGCTCGG
GTCAGGCATCGATGTCCAATGAGCAGCAAGGAGATTGTGACCCCTCGTGAAGATTTTACAGAGCATCCAAGAAA
CCAAAGCAGTGGGTGGCCGTTTGTATGAGGGGCAAAAGGTGCTTGGAGAAAAGTGGATCTCAGCTTGGAGAA
CAGGAAGTGCAGACTTTCAACCGCAGACTCTAGGAGAGATCTCAGGGAGAGCTCTCCAGCAGAGCCTTCCAG
GCAGGAGCTTATGACCGGCTGAGCCCCCATCATTGGGAGAAATCCCACTCCTCCAAGAACCAACCCCAAAATTG
GCTGGGACAGAGGCCCCCAGAATGAGAAGTGACAACAAGGAAAATCCACAACAGGAAGGGGCTAAAGGAGCAAAG
CCATGTGAGTGTGAGCTGGCAGATCCAAAGGGAATGGTCTGCAGAATCCTGAACCAAGAGGGGCAAAATATGAGT
GAACCTCGGTTGTACGGAGGCAGGTGAGCTCCCCAAATGCTCAAAAGCCATTTGCTCACTACCAGAGACATTGC
AGGGTGAATACATCAGCAGCCCCCTAAAAAGCCACCCACTGAGAGAGCTAAAGAAAAGCAAAGGAGGTAACGG
AGTCTGAGCAACCGTTTGAACATCTTGGTACCAGCCACCCGCTCAGCAAAGAAACCTACAAATGTGATGAC
TGTGGGAAAAGCTTACGTGGAATTCAGAGCTGAAGAGACACAAGAGAGTCCACACAGGAGAGAGACCCTACACG
TGCGGAGAGTGTGAAAAGTCTTTGGGCGGCAGTCAACCCCTGAAGCTGCACCAGAGGATCCACACTGGAGAGAAG
CCATACAGTGTGGCCAGTGTGGGAAAAGCTTTGCCAGAGCTCAAACCTTACCAGCATACCGACTTCACCAT
GGGGACTAAAAGGAGCACTCCATGCTTTAGATTACACGGAAGGTGTTTGTGTTTCTCCTCCCCCTTGCTTGCAT
GTAAATCACAAAAAGTGTGACTTACAAGGAAAGCAGAGGCCCTTGAGGAATGATGATGCACATTCTGCTGTG
AGGAGGCCCAGAAAAGGCCAACAGGGCCCAACCGTGCATGATGACAGGGTGCAGAGAAGGCAGGTCTGGGCACT
GGGGCAAAGAGAACTTAAGTCTCTGCAGAGAGCAAGGAGTAAGTACTGAGAGAGAATCAGGACAATCCTGCAGGT
GGCCCGCTTACTGTTAAATCGTCCCTCTGTTGCTTTATCCTCTAAATATGTTAAGGGATAAATTCTATATATAT
AGTTATGCATTTGCTGTGCATACCAGACAATTTTTTATCATGAGCACACTTCTTAATAAAGATGAGTGATCTACC
AGAAAAAAAAAAAA

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FIGURE 2345

MAAKMEITLSSNTEASSKQERHIIAKLEEKRGEPLOKNCDPPELCRQSFRRFCYQEVSGPQEALSQLRQLCRQWL
QPELHTKEQILELLVMEQFLTILPPEIQARVRHRCPMSSKEIVTLVEDFHRASKKPKQWVAVCMQGGQKVLEKTG
SQLGEQELPDFQPQTPRRDLRESSPAEPSQAGAYDRLSPHHWEKSPLLQEPTPKLAGTEAPMRSDNKENPQOEG
AKGAKPCAVSAGRSKGNGLQNPEPRGANMSEPRLSRRQVSSPNAQKPFQAHYQRHCRVEYISSPLKSHPLRELKKS
KGGKRSLSNRLQHLGHQPTRSARKPYKCDDCGKSFTWNSELKRHKRVHTGERPYTCGECGNCFGRQSTLKLHORI
HTGEKPYQCGQCGKSFRQSSNLHQHRLHHGD

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FIGURE 2346

TTTGGGTTAGGGAGAGTGCTTTTCGTTTGTTTTAAATGGGAGAAACTGGAGCATGTTGCCAAGGCAGAGAGCCAGC
AGAGAGGGGTGAATGGAAGAAGGAGCGAGAAGGGGGTTACTGACGAAGCCTTATCCTGGAGGAGAGAAGGATGGA
CTCCAGAGCCCAGCTTTGGGGACTGGCCTTGAATAAAAGGAGGGCCACTCTACCTCATCCTGGAGGGAGCACGAA
CCTAAAGGCAGACCCAGAGAGCTTTTTACAAAAGTAGAGAAAATTGGGAAGGGCTCCTTTGGAGAGGTGTTCAA
AGGCATTGACAATCGGACTCAGAAAGTGGTTGCCATAAAGATCATTGATCTGGAAGAAGCTGAAGATGAGATAGA
GGACATTCAACAAGAAATCACAGTGCTGAGTCAGTGAGTCATATGTAACCAAATATTATGGATCCTATCT
GAAGGATACAAAATTATGGATAATAATGGAATATCTTGGTGGAGGCTCCGCACTAGATCTATTAGAACCTGGCCC
ATTAGATGAAACCCAGATCGCTACTATATTAAGAGAAATACTGAAAGGACTCGATTATCTCCATTCCGAGAAGAA
AATCCACAGAGACATTAAAGCGGCCAACGTCCTGCTGTCTGAGCATGGCGAGGTGAAGCTGGCGGACTTTGGCGT
GGCTGGCCAGCTGACAGACACCAGATCAAAAGGAACACCTTCGTGGGCACCCCATCTGGATGGCACCCGAGGT
CATCAAACAGTCGGCCTATGACTCGAAGGCAGACATCTGGTCCCTGGGCATAACAGCTATTGAAGTGAAGAGG
GGAACCACTCATTCCGAGCTGCACCCATGAAAGTTTTATTCTCATTCCAAAGACAACCCACCGACGTTGGA
AGGAACTACAGTAAACCCCTCAAGGAGTTTTGTGGAGGCTGTTTGAATAAGGAGCCGAGCTTTAGACCCACTGC
TAAGGAGTTATGAAGCACAAGTTTATACTACGCAATGCAAAGAAAACCTTCTACTTGACCGAGCTCATCGACAG
GTACAAGAGATGGAAGGCCGAGCAGAGCCATGACGACTCGAGCTCCGAGGATTCCGACGCGGAAACAGATGGCCA
AGCCTCGGGGGCAGTGATTCTGGGGACTGGATCTTCACAATCCGAGAAAAAGATCCCAAGAATCTCGAGAATGG
AGCTCTTCAGCCATCGGACTTGGACAGAAATAAGATGAAAGACATCCCAAAGAGGCTTTCTCTCAGTGTTCATC
TACAATTATTTCTCTCTGTTTGCAGAGTTGAAGGAGAAGAGCCAGGCGTGCGGAGGGAACCTGGGGTCCATTGA
AGAGCTGCGAGGGGCCATCTACCTAGCGGAGGAGGCGTGCCCTGGCATCTCCGACACCATGGTGGCCAGCTCGT
GCAGCGGCTCCAGAGATACTCTCTAAGTGGTGGAGGAACCTTCATCCCACTGAAATTCTTTGGCATTGGGGTTT
TGTTTTCTTTTTCTTTCTTTCTCTCTCTTTTTTAAAGTCAACGAGAGCCTTCGCTGACTCCACCGAAG
AGGTGCGCCACTGGGAGCCACCCAGCGCCAGGCGCCGTCCAGGGACACACAGTCTTCACTGTGCTGCAGCC
AGATGAAGTCTCTCAGATGGGTGGGGAGGGTCAGCTCCTCCAGCGATCATTTTATTTTATTACTTTTGT
TTTTAATTTTAACCATAGTGACATATTCCAGGAAAGTGTCTTTAAAAACAAAAACAAACCTGAAATGTATAT
TGGGATTATGATAAGGCAACTAAAGACATGAAACCTCAGGTATCTGCTTTAAGTTGATAACTCCCTCTGGAGCT
TGGAGAATCGCTCTGGTGGATGGGTGTACAGATTGTATATAATGTCAATTTTACGGAACCCCTTCGGCGTGCA
TAAGGAATCACTGTGTACAACTGGCCAAGTGCTTCTGTAGATAACGTCAGTGGAGTAAATATTCGACAGGCCAT
AAACTTGAGTCTATTGCCTTGCTTTTATTACATGTACATTTTGAATTCTGTGACCAGTGATTGGGTTTTATTT
GTATTTGCAGGGTTTGTCAATAATAATTAATGCCCCCTCTCTTACAGAACTCCTATTTGTACCTCAACAAATGC
AAATTTTCCCCGTTTGGCCTACGCCCCCTTTGGTACACCTAGAGGTTGATTTCCTTTTTTCATCGATGGTACTATT
TCTTAGTGTTTTAAATTGGAACATATCTTGCCCTCATGAAGCTTTAAATTATAATTTTCACTTTTCCCCATGAAG
CGCTCTCGTCTGACATTTGTTTGAATCGTGCCACTGCTGGTCTGCGCCAGATGTACCGTCTTTCCAATACGAT
TTTCTGTTGCACCTTGTAGTGGATTCTGCATATCATCTTTCCACCTAAAAATGTCTGAATGCTTACACAAATAA
ATTTTATAACACGCTTAAAAAAAAAAAAAA

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FIGURE 2347

MAHSPVQSGLPGMQNLKADPEELFTKLEKIGKGSFGEVFKGIDNRTQKVVAIKIIDLEEADEIEDIQQEITVLS
QCDSFYVTKYYGSYLKDTKLWIIMEYLGGSALDLLEPGPLDETQIATILREILKGLDYHSEKKIHRDIKAANV
LLSEHGEVKLADFGVAGQLTDTQIKRNTFVGTPFWMAPEVIKQSAYDSKADIWSLGITAIELARGEPPHSELHPM
KVLFLIPKNNPPTLEGNYSKPLKEFVEACLNKEPSFRPTAKELLKHKFILRNAKTSYLTTELIDRYKRWKAESH
DDSSSESDAETDQQASGGSDSGDWIFTIREKDPKNLENGALQPSDLDRNKMKDIPKRPFSSQCLSTIISPLFAEL
KEKSQACGGNLGSIEELRGAIYLAEEVCPGISDTMVAQLVQRLQRYSLSGGGTSSH

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FIGURE 2348

CGGGCTCCAGCGGCTCCCGCGCCGAACCTCCTCGGCGAAGTCTCCCTGGCCGCCCC**ATG**TCGGCCGCCCC
CGCCTACAGCGAAGACAAGGGCGGCTCCGCTGGCCCCGGGAGCCCCAGTACGGCCACGACCCCGAGCGGGCGG
CATCTTCTCCTCCGACTACAAGCGGCATGATGACCTGAAGGAGATGCTGGACACCAACAAGGATTCTCTCAAGCT
GGAGGCCATGAAGAGGATTGTGGCGATGATTGCCCCGAGGAAAGAATGCTTCAGACCTGTTTCCCGCGGTGGTGAA
GAACGTGGCCTGTAAAGACATAGAGGTGAAGAAGCTTGTCTATGTGTACCTGGTACGCTACGCTGAGGAGCAGCA
AGACCTGGCCCTGTCTCATCTCCACCTTCCAACGTGGCCTAAAGGATCCCAACCAGCTGATTCTGTGCCAGTGC
CCTCCGTGTCTCTTAGCATCCGTGTGCCCATCATAGTGCCCATCATGATGCTAGCTATCAAGGAAGCCGCCTC
GGACATGTACCCCTATGTGCGGAAAACAGCTGCCCCAGCCATCCCTAAACTCTACAGTTTGGACTCTGACCAGAA
GGATCAGCTGATAGAAGTCATTGAGAAGCTTCTGGCTGACAAGACCAGCTGGTGGCGGGCAGTGTGGTGATGGC
CTTTGAGGAGGTCTGCCCCGAGCGCATCGACCTGATTACAAAACTACCGGAAACTCTGTAACCTGCTGATCGA
CGTGGAGGAGTGGGGCCAGGTGGTCATCATCAGCATGCTCACCCGCTACGCCCCGACGCAGTTCCTGAGCCCCAC
CCAGAACGAATCCCTACTAGAGGAGAACGCGGAAAAAGCCTTCTACGGCTCAGAGGAGGACGAGGCCAAGGGCGC
GGGGTCTGAGGAGACGGCCGCGCGGCCGCCCTTCCCGAAAGCCCTATGTATGGACCCCGACCACCGGCTGCT
GCTGCGCAACACCAAAACCCCTGCTGCAGAGCCGACGCGCCGCGGTGGTGATGGCGGTGGCGCAGCTCTACTTCCA
CCTGGGCCCCAAGGCGGAAGTGGCGTCATCGCCAAGGCGCTGGTGGCTGCTGCGCAGCCACAGTGAGGTGCAGTA
CGTTGTGCTCCAGAACGTGGCCACCATGTCCATCAAGCGCCGGGGTATGTTTGAAGCCCTACCTGAAGAGCTTCTA
CATCAGGTCCACCGACCCACCCAGATTAAGATCTGAAGCTGGAAGTGTGACCAACCTGGCCAATGAGACCAA
CATTCTACTGTCTACGGGAATTCCAGACCTATATTGCGAGCATGGACAAGGACTTTGTGGCAGCCACAATCCA
GGCCATTGGACGCTGTGCAACTAACATCGGCCGAGTCCGTGACACCTGCCTCAATGGCCTGGTGCAGTGTCTGTC
CAACCGTGATGAGCTTGTGGTTGAGAGTCAAGTGGTTCATTAAAGAAATGCTACAGATGCAGCCAGCACAACA
TGGAGAGATCATCAAACACTTGGCAAAGCTTACAGACAACATCCAGGTGCCCATGGCCCCGAGCCAGCATCCTGTG
GCTCATCGGAGAGTACTGTGAGCATGTCCCCAGGATTGCACCTGATGTCTTAAGAAAAATGGCCAAGTCAATCAC
AGCAGAGGAGGATATTGTCAAGCTGCAGGTTCATCAACCTGGCAGCCAAGCTCTACCTGACCAACTCTAAACAGAC
CAAGCTGCTGACCCAGTATGTGCTGAGTCTGGCCAAATATGACCAGAACTATGATATTCGCGACCGGGCGCGCTT
CACCCGGCAGCTCATCGTCCCTTCCGAGCAGGGTGGGGCCCTCAGCCGCCATGCCAAGAAGCTCTTCTGGCACC
CAAACAGCTCCAGTCTTGGAGTCATCCTTCAAAGACCGGGGACCACTTCCAGCTGGGCTCACTGTCCACCTGCT
TAATGCCAAGGCCACAGGCTACCAGGAGCTCCAGACTGGCCGGAGGAAGCCCCAGACCCATCTGTGCGCAACGT
GGAGGTACCTGAATGGACCAAGTGTCAAATCGGGAGAAGAGAAAGGAGAAGGAAAAACCTTCTACTCGGACTC
TGAGGGGGAGTACGGCCCCACGGAGTCCGCAGACAGTGACCCTGAGTCTGAGAGTGAATCGGACAGTAAGAGCAG
CAGTGAGAGCGGCTCTGGGGAGTCCAGCAGTGAAGTCCGACAATGAAGACCAGGATGAGGATGAGGAGAAAGGGAG
AGGCAGTGAGAGTGAACAGAGTGAGGAGGATGGTAAGAGGAAGACAAAGAAGAAGGTGCCAGAGAGAAAAGGAGA
AGCGTCATCCTCTGATGAGGGCAGCGATTCCAGCAGTAGCTCATCAGAGTCCGAGATGACATCGGAGTCCGAGGA
GGAGCAGTTAGAACCTGCCTCCTGGAGCAGGAAAACACCTCCAGCAGCAAAAGTGCTCCTGCAACCAAGGAGAT
CTCCCTGCTTGATCTAGAGGATTTACCCCTCCAGTGTCCAGCTGTGTCTCCCCAGCAATTGTGTCTACCAG
TCTGGCTGCTGACCTGGAGGGCTGACACTCACAGACTCCACCCTGGTACCGTCGCTTCTGAGTCCAGTATCGGG
TGTTGGGCGGCAGGAGCTGCTGCACCGGTAGCTGGCGAGGGGCTGGCTGTGGACTACACCTTCAGCCGCCAACCC
TTTCTCCGGGGATCCCCACATGGTGTCCGTGCACATCCACTTCTCCAACAGCTCTGATACCCCATCAAGGGCCT
GCATGTGGGCACTCCCAAACCTGCCTGCTGGCATCAGCATCCAAGAATTTCCCGAAATTGAGTCCCTGGCACCTGG
AGAATCTGCCACTGCTGTAATGGGCATTAATTTCTGTGACTCAACCCAGGCAGCCAACCTTCCAGCTGTGCACCCA
GACCCGACAGTTCTACGTCTCCATTAGCCACCTGTTGGGGAGCTGATGGCCCTGTGTTTCATGAGTGAAAATGA
GTTTAAGAAGGAACAGGGAAGCTGATGGGCATGAATGAGATCACAGAGAACTCATGCTGCCAGACACCTGTGCG
GAGTGACCACATTGTGGTGCAGAAAGTGACTGCCACTGCCAACCTGGGTGCTGTTCTTGTGGGACATCTGATGA
GTACAGGTTTGCAGGGAGGACACTGACTGGTGAAGCCTCGTTCTGCTGACCCTGGATGCCCGGCCAGCTGGAGC
TGCCAGCTGACTGTCAACAGCGAGAAAATGGTGATTGGCACCATGCTGGTAAAGGATGTGATACAGGCTCTGAC
CCAG**TG**CACTTCCAAATGCTGTGACCTGTTTGGCTCCCATCTATACCTCCCCATGACACCTAGGCTGTGAGTCTCT
CTCATCTTCTCTCTCTCTCATCATCTCCTCATGCCAGATAGCAATCAGGGTGTCTCTCTCCCC

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FIGURE 2349

MSAAPAYSEDKGSAGPGEPEYGHDPASGGIFSSDYKRHDDLKEMLDTNKDSLKLEAMKRIVAMIARGKNASDLF
PAVVKNVACKNIEVKKLVYVYLVRYAEEQQDLALLSISTFQRLKDPNQLIRASALRVLSSIRVPIIVPIMMLAI
KEAASDMSPYVRKTAHAIPKLYSLDSDQKDQLIEVIEKLLADKTTLVAGSVVMAFEEVCPERIDLIHKNYRKLK
NLLIDVEEWGQVVIISMLTRYARTQFLSPTQNESLLEENAEKAFYGSEDEAKGAGSEETAAAAAPSRKPYVMDP
DHRLLLNTKPLLQSRSAAVVMAVAQLYFHLGPRRKWRHRQGAGALLRSHSEVQYVVLQNVATMSIKRRGMFEPY
LKSFYIRSTDPTQIKILKLEVLTNLANETNIPTVLRREFQTYIRSMKDFVAATIQAIGRCATNIGRVRTCLNGL
VQLLSNRDELVVAESVVVIKLLQMQPAQHGEIHKHLAKLTDNIQVPMARASILWLGIEYCEHVPRIAPDVLKRM
AKSFTAEDIVKLQVINLAAKLYLTNSKQTKLLTQYVLSLAKYDQNYDIRDRARFTRQLIVPSEQGALSRAHAK
LFLAPKPAPVLESSFKDRDHFQLGSLSHLLNAKATGYQELPDWPEEAPDP SVRNVEVPEWTKCSNREKRKEKEP
FYSDSEGESGPTESADSDPESESESDSKSSSESGSGESSSES DNEDQDEDEEKGRGSESEQSEEDGKRKTKKKVP
ERKGEASSSDEGSDSSSSSESEMTSESEEEQLEPASWSRKTPPSSKSAPATKEISLLDLEDFTPPSVQPVSPPA
IVSTSLAADLEGLTLTDSTLVP SLLSPVSGVGRQELLHRVAGEGLAVDYTF SRQPFSGDPHMSVHIHFSNSSDT
PIKGLHVGTPKLPAGISIQEFPEIESLAPGESATAVMGINFCDSTQAANFQLCTQTRQFYVSIQPPVGELMAPVF
MSENEFKKEQGKLMGMNEITEKMLPDTCRSDHIVVQKVTATANLGRVPCGTSDEYRFAGRTL TGGSLVLLTLDA
RPAGAAQLTVNSEKMGVIGTMLVKDVIQALTO

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FIGURE 2350

CAGACGGCGCTGAGCGCGCGGCGGGAGCGGCGTCTCGAGTGTCTCCGTGCGCCCGTCTGTGGCCAAGCAGCCA
GCAGCCTAGCAGCCAGTCAGCTTGCCGCCGCGGCCAAGCAGCCAACCATGCTCAACTTCGGTGCTCTCTCCAG
CAGACTGCGGAGGAAAGAAATGGAAATGATTCTGAAAGGCCAAAAGAGAGTATGTATTCCTGGAACAAAAGTGA
GAGAAAAGTGATTTTGAAGCTGTAGAAGCACTTATGTCAATGAGCTGCAGTTGGAAGTCTGATTTTAAGAAATAC
GTTGAAAACAGACCTGTTACACCAGTATCTGATTTGTGAGAGGAAGAGAATCTGCTTCCGGGAACACCTGATTTT
CATACAATCCCAGCATTTTGTGTTGACTCCACCTTACAGTCCCTTCTGACTTTGAACCTCTCAAGTGTCAAATCTG
ATGGCACCAGCGCCATCTACTGTACACTTCAAGTCACTCTCAGATACTGCCAAACCTCACATTGCCGCACCTTTC
AAAGAGGAAGAAAAGAGCCAGTATCTGCCCCAAAAGCTCCCAAGCTCAGGCAACAAGTGTGATTGTCATACA
GCTGATGCCAGCTATGTAACCACCAGACCTGCCCAATGAAAGCAGCCAGCATCCTCAACTATCAGAACAATTCT
TTTGAAGAAGAACCACCTAAATGTTGAGGCTGCAAGAAAGAACATACCATGTGCCGCTGTGTACCAAAACAGA
TCCAAATGTGAGAGAAACACAGTGGCAGATGTTGATGAGAAAGCAAGTGTGCACTTTATGACTTTTCTGTGCCT
TCCTCAGAGACGGTCTATCTGAGGTCTCAGCCAGCCCTGTGTCCCCACAACAGAAGTCAAGTGTGTTGGTCTCTCCA
CCTGCAGTATCTGCAGGGGAGTGCCACCTATGCCGGTCTATCTGCCAGATGGTTCCCTTCTGCCAACAACCTT
GTTGTGACAACAGTCTGTTCCAGCACTCTCTCCAGCCAGCCACCAGCCGTTTGCCCCCTGTTGTGTTTATGGGC
ACACAAGTCCCAAAGGCGCTGTCTGTTTGTGGTACCCAGCCGTTGTGTCAGAGTTCAAAGCCTCCGGTGGTG
AGCCCGAATGGCAACCAGACTCTCTCCATTGCCCTGCTCTGCGGTTTTCCTTTCAGCAGCAAAAGTCACTCTT
CAGATTGATTCTCAAGGATAAGGAGTCACATCTGTAGCCACCAGGATGTGGCAAGACATACTTTAAAGTTCC
CATCTGAAGGCCACACGAGGACGCACACAGGAGAAAAGCCTTTCAGCTGTAGCTGGAAAGGTTGTGAAAGGAGG
TTTGCCCGTTCTGATGAAGTGTCCAGACACAGGCGAACCCACACGGGTGAGAAGAAATTTGCGTGCCCCATGTGT
GACCGGCGGTTTCATGAGGAGTGACCATTTGACCAAGCATGCCGCGGCCATCTATCAGCCAAGAAGCTACCAAC
TGGCAGATGGAAGTGAGCAAGCTAAATGACATTGCTCTACCTCCAACCCCTGCTCCACACAGTGACAGACCGGA
AAGTGAAGAGTCAGAACTAACTTTGGTCTCAGCGGGAGCCAGTGGTGATGTAATAATGCTTCCACTGCAAGTCTG
TGGCCCCACAACGTGGGCTTAAAGCAGAAGCCCCACAGCCTGGCACGAAGGCCCCGCTGGGTTAGGTGACTAAA
AGGCGTTTCGGCCACAGGCAGGTACAGAAAGGCAGGTTTCATTTCTTATCACATAAGAGAGATGAGAAAGCTTTT
ATTCCTTTGAATATTTTTGAAGGTTTCAGATGAGGTCAACACAGGTAGCACAGATTTTGAATCTGTGTGCATAT
TTGTTACTTTACTTTTGTGTTTATACTTGAGACCACTTTTCAATGTGATTCTTCTAAAGCACTGGTTTCAAGA
ATATGGAGGCTGGAAGGAAATAAACATTACGGTACAGACATGGAGATGTAATAATGAGTTTGTATTATTACAAATA
TTGTCATCTTTTCTAGAGTTATCTTCTTTATTATTCTTAGTCTTTCCAGTCAACATCGTGGATGTAGTGATTAA
ATATATCTAGAATATCATTTTTTACACTATTGTGAATATTTGGAATTGAACGACTGTATATTGCTAAGAGGGCCC
AAAGAATTGGAATCCTCCTTAATTTAATTGCTTTGAAGCATAGCTACAATTTGTTTTTGCATTTTGTGTTTGA
GTTTAAACAAATGACTGTATCTAGGCATTTTATTATGCTTTGAACTTTAGTTTGCCTGCAGTTTCTGTGTAGATT
TGAAAATTGTATACCAATGTGTTTTCTGTAGACTCTAAGATACACTGCACCTTTGTTTAGAAAAAAAGTGAAGAT
GAAATATATATTGTAAAGAAGGGATATTAAGAATCTTAGATAACTTCTTGAAAAGATGGCTTAIGTCATCAGTA
AAGTACCTTTATGTTATGAGGATATAATGTGTGCTTTATTGAATTAGAAAATTAGTGACCATTATTCACAGGTGG
ACAAATGTTGCTGTTAATTTATAGGAGTTTTTGGGGATGTGGAGGTAGTTGGGTAGAAAAATTATTAGAACA
TTCACTTTGTAAACAGTATTTCTCTTTTATTCTGTTATATAGTGGATGATATACAGTGGCAAAACAAAAGTA
CATTGCTTAAATATATAGTAAAAATGTCACATATCTTCCCATTTAACATTGTTTTGTATATTGGGTGTAGA
TTTCTGACATCAAACTTGGACCTTGGAAAACAAAAGTTTTAATTAATAAAATCCTTGTGACTTACAATTTGC
ACAATATTTCTTTTGTGTACTTTATATCTTGTTTACAATAAAGAATTTC

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FIGURE 2351

MLNFGASLQQTAEERMEMISERPKESSMYSWNKTAEKSDFEAVEALMSMSCSWKSDFKKYVENRPVTPVSDLSEEE
NLLPGTDFHTIPAFCLTPPYSPSDFEPSQVSNLMAPAPSTVHFKSLSDTAKPHIAAPFKEEEKSPVSAPKLPKA
QATSVIRHTADAQLCNHQTCPMKAASILNYQNNFRRRTHLNVEAARKNIPCAAVSPNRSKCERNTVADVDEKAS
AALYDFSVPSSSETVICRSQPAPVSPQQKSVLVSPPAVSAGGVPPMPVICQMVPLPANNPVVTTVVPSTPPSQPPA
VCPVVFVFMGTQVPKGAVMFVVPQPVVQSSKPPVSPNGTRLSP IAPAPGFSPSAKVTPQIDSSRIRSHICSHPG
CGKTYFKSSHLKAHTRTHTGEKPFSCSWKGCERRFARSDELSRHRRTHTGEKKFACPMCDRRFMRSDHLTKHARR
HLSAKKLPNWQMEVSKLNDIALPPTPAPTQ

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FIGURE 2352

GAAC TGGTGGCAGT GAGAGACTTCGGCGGACATGGCTCCAGCGTGCCAGCGGCAGAACCCGAGTATCCTAAAGG
CATCCGGGCCGTGCTGCTGGGGCCCTCCCGGGCCGGTAAAGGGACCCAGGCACCCAGATTGGCTGAAAACCTTCTG
TGCTGCCATTTAGCTACTGGGGACATGCTGAGGGCCATGGTGGCTTCTGGCTCAGAGCTAGGAAAAAGCTGAA
GGCAACTATGGATGCTGGGAACTGGTGAGTGATGAAATGGTAGTGAGCTCATTGAGAAGAATTTGGAGACCCC
CTTGTCAAAAATGGTTTTCTTCTGGATGGCTTCCCTCGGACTGTGAGGCAGGCAGAAATGCTCGATGACCTCAT
GGAGAAGAGGAAAGAGAAGCTTGATTCTGTGATTGAATTCAGCATCCCAGACTCTCTGCTGATCCGAAGAATCAC
AGGAAGGCTGATTCACCCCAAGAGTGGCCGTTCTACCACGAGGAGTTCAACCCTCCAAAAGAGCCCATGAAAGA
TGACATCACCGGGGAACCCCTGATCCGTCGATCAGATGATAATGAAAAGGCCTTGAAAATCCGCGCTGCAAGCCTA
CCACACTCAAACACCCCACTCATAGAGTACTACAGGAAACGGGGGATCCACTCCGCCATCGATGCATCCCAGAC
CCCCGATGTCGTGTTTCGCAAGCATCCTAGCAGCCTTCTCCAAAGCCACATCCTAGTATCAGAAGGCCAGGCGAGA
CTGCAACACTGCTCATCACCCGCGGCGTGATCCCTGCTCTTAGGTGCTGGGCAGAGGGGAAGGGTGGTCAGGGT
GAGGATGGTGAGGGAGGGCTGGTGAGGGGCTCAGAGGAATACTTGAACAACAGCAGTGTTATTGTAGTGTTGGCA
GTTTCTTTTATACATAGGTGAGAGTTTTTAAAGTGTAAGGGAAAAATTAATTTTTTAAAAAACACCATGCTTGGGA
GGGTGGGGGTAGAAAATAGACACAATATTATTTCTAAGGAATCGGGTTTTTCACTTACTCTGGACTGGTGAAAATAT
TTTTTAAAGCCAGTGCTCTAAGACCTCAGCTTTTTATCTCAGAACCCCATGGGTTCAGACCAAGAGTACAGGAAA
TCAAATTTGTTGCTGCTGTCTATAGCTTGGAAACAGGGAGCTTTGATTACTGACTCCGGTTCCACACACTGTAA
GATCAAAAAACCATCTCCACATTTGAAAGAGATGTAAGGTGTATTTCATAGGGATGGTGGCTCAACAAATCAAGCA
AACTGGAATCAAGGGGAGGGGGAAGGGAATGAAATGAAAAGGGAGGCTGATTCCTTCCCCTGACTTACCACTAA
TTTACTAGGCTACCTACTTTTCATGAGTAACCTCTCACAGCTACCCAGCACATGCCACAATCCTATCGTCTTGCCCT
TCTTTTATCTGCCTGTGTGAAGGGACTCTTTTAAATAAATGAGCAAGTGTCTAAGCTATGTCATCCAAAGATT
GTCCTTTCCATTCTCAAATCCTGTGACTGGGATCACTCAACAGCACTGTGATGTATTATTTCAATGAGGTGCCT
TTCTTAAGTACCAAATGCTGCCTTGTGTTGGCCCTAAATCAATAAAATATGTTAAATTTGTATCCCCTGTGTG
GGCATTTTTTTTAGATAATCTAAGCTAGAAAAATGACATTGAATTTCTGGACCTGGCTGGAAGGAAAAGAAGCCCT
TTCTTGTCGCTGGCAGCTGTGTGGTAGGAGGTCCAAGTATGTGCATATGAGATAAGCCTGCAACCTCTTGACCTT
CAGCTCCTATGCAGGCTTCTCTTGAGCCCAGAGACAAGGCAGCTTGGTCTAGTGGAGATAGCACTGTGCTTGGAG
TTCAGGGGACCTAGGACAAATCCAGCCAGTTAGTTATTCAGTGTGCTCCTGTTTCTCAGCTGAAAAAGGAAGT
TGGTTATGCCACCTTCTTGGCCTTAATGGCATTAAATGAAATTTATAGGAAGAAGGTTTTTGCTCAGTACCTGGC
ATGCAACAGACATTGGATAAATGTTAGTTGGATCCAGATATACACAGAAAGATATCTGCTTCTGCCAGGCTGGA
TAACTGTTGAATGACACTTGTCCATAGTCTAGA

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FIGURE 2353

MAPSVPAAEPEYPKGIRAVLLGPPGAGKGTQAPRLAENFCVCHLATGDMLRAMVASGSELGKKLKATMDAGKLV
DEMVELIEKNLETPLCKNGFLLDGFPRTVRQAEMLDLMEKRKEKLDSVIEFSIPDSLLIRITGRLIHPKSGR
SYHEEFNPPKEPMKDDITGEPLIRRSDDNEKALKIRLQAYHTQTTPLIEYYRKRGIHSAIDASQTPDVVFASILA
AFSKATS

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FIGURE 2354A

GCTTGGGGCCGCCATCTTGGCAAGAGCGGAAGCGGCAGCGGTTCTGTCAAGGGGGCAGCAGGTCCAGAGCTGCT
GGTGCTCCCGTTCCCCAGACCCTACCCCTATCCCCAGTGGAGCCGGAGTGCGGGCGCGCCCCACCACCGCCCTCA
CCATGGTGCTGTGGCAGCAGCGGTCTGCACAAAAGCAGGAAAGGCTATTGTTTCTCGACAGTTTGTGAAATGA
CCCGAACTCGGATTGAGGGCTTATTAGCAGCTTTTCCAAAGCTCATGAACACTGGAAAACAACATACGTTTGTG
AAACAGAGAGTGTAAAGATATGTCTACCAGCCTATGGAGAACTGTATATGGTACTGATCACTACCAAAAACAGCA
ACATTTTAGAAGATTTGGAGACCCTAAGGCTCTTCTCAAGAGTGATCCCTGAATATTGCCGAGCCTTAGAAGAGA
ATGAAATATCTGAGCACTGTTTTGATTTGATTTTGGCTTTTGATGAAATTGTCGCACTGGGATACCGGGAGAATG
TTAACTTGGCAGATCAGAACCTTCACAGAAATGGATTCTCATGAGGAGAAGGTGTTTCAGAGCCGTCAGAGAGA
CTCAAGAACGTGAAGCTAAGGCTGAGATGCGTCGTAAAGCAAAGGAATTACAACAGGCCCGAAGAGATGCAGAGA
GACAGGGCAAAAAGCACCAGGATTTGGCGGATTTGGCAGCTCTGCAGTATCTGGAGGCAGCACAGCTGCCATGA
TCACAGAGACCATCATTGAAACTGATAAACC AAAAGTGGCACCTGCACCAGCCAGGCCTTCAGGCCCCAGCAAGG
CTTTAAACTTGGAGCCAAAGGAAAGGAAGTAGATAACTTTGTGGACAAATTAATACTGAAGGTGAAACCATCA
TGTCTCTAGTATGGGCAAGCGTACTTCTGAAGCAACCAAAATGCATGCTCCACCCATTAAATATGGAAAGTGAC
ATATGAAGATTGAAGAAAAGATAACATTAACCTGTGGACGAGACGGAGGATTACAGAATATGGAGTTGCATGGCA
TGATCATGTCTTAGGATCTCAGATGACAAGTATGGCCGAATTCGTCTTCATGTGGAAAATGAAGATAAGAAAGGGG
TGCAGCTACAGACCCATCCAAATGTGGATAAAAAACTTTTCACTGCAGAGTCTCTAATTGGCCTGAAGAATCCAG
AGAAGTCAATTCCAGTCAACAGTGACGTAGGGGTGCTAAAGTGGAGACTACAAACCACAGAGGAATCTTTTATTC
CACTGACAATTAATTGCTGGCCCTCGGAGAGTGGAATGGCTGTGATGTCAACATAGAATATGAGCTACAAGAAG
ATAATTTAGAACTGAATGATGTGGTTATCACCATCCCACTCCCGTCTGGTGTGCGCGCGCCTGTTATCGGTGAGA
TCGATGGGGAGTATCGACATGACAGTGCAGCAAAATACCCTGGAGTGGTGCCTGCCTGTGATTGATGCCAAAAATA
AGAGTGGCAGCCTGGAGTTTAGCATTGCTGGGCAGCCCAATGACTTCTTCCCTGTTCAAGTTTCTTTGTCTCCA
AGAAAAATTACTGTAAACATACAGGTTACCAAAGTGACCCAGGTAGATGGAAACAGCCCCGTAGGTTTTCCACAG
AGACCACITTTCTAGTGGATAAGTATGAAATCTGTAAATACCAAGAAGAGGGAGCTGAAAAGGAAAATTTTCAGA
TTAATAAAGAAGACGCCAATGATGGCTGAAGAGTTTTTCCAGATTTACAAGCCACTGGAGACCCCTTTTTCTG
ATACAATGCACGATTCTCTGCGCGCAAGGACCCTCGACTCACCCCATGTTTCAGTGTACAGAGACATTCTTG
ATAAGGAAATGGCACAACATAAAGGAAAGGCTGCTAATTTTCTTTGGCAGATTGTATGGCCAGCAGGAAAGC
AAGCTCTCCAGAGAATGCCCCAGTTAAATACCTCCTCTACCTTTACCTAAGTTGCTCCTTTATTTTTATTTTAT
TATTATTATTATTATTATTATTTTTTGAGATGGAGTCTCACTTTGTAACCCAGGCTGGAATGCAATGGCATGATC
TCAGCTCACTGCAACCTCCGCTCCTGGGTTCAAGCAAGTCTCCTGCCTCAGCCTCCGAGTAGCTGGGACTACAG
GTGCACGCCACCACGCTGGCTAATTTTTGTATTTTAGTAGAGACGGGGTTTACCCTGTTGCCAGGCTGGTTC
GCCAACTCCTGAGCTCAGGCAATCCGCCACCTCAGCCTCCCAAAGTGTGGGATTACAGGCATGAGCCACCATG
CCCAGCTGCTCCTTTATTTAATCCCTAAATATAATCCCTAAATATAGTTATATTTTCATACCTAGTTTGTTTTA
AAAAGTTTTCTGTAGAAAATTTAATCATTACACCTTTACCTTTAGGTTTTCTTTCTATACATTAGTCA
GGCACTGGGATCATCTGTTTACAGGCATTATATTTATTTGGCACTCCTGGAACAAGTATATCTAACCCATTCTTG
ATTTTGGACTATTACAGGTGAATTTTGGGGGTATGGGGTCTAGAAGTTAAAAGATACGCATGTCTTCTGTTTC
TTTTCCCGTATCAATTCATTCTCTCTTTGCCAAGTTGTTTTCTTTTCAGGGCCTGTCTTCCAGTTTAGA
ACAGTACCATGAATCCCACTTGTGTCAATATTAAGATAGCTGAGAAGCACCTTTCAAATGGCACAGTCCCTCTT
CAAGATGTCTAAAAGAATGGTTATGTCTGTCCAGTTAGGGATTTCACATCCACATGTAATCATGTCTGTCTGT
TGCTACCCAAATTTTCAATTCTCCACATTTTGGGTACTTAAGCTAAAACGTAATGGCCACAGTCTGTAATCCATT
CACATTCTCAGTTTACCACCTCCCTCTTCCAGACTGCACCTCTGTCTCATCAGTCCCTCTCTTCTAACAGAAA
TGGGGTTATGATTTTGAAGGCTGTGGGTTTCAAGGAGTCTTTGCCAATCCTGTTGGCCCTAAACTATCAAGGAGGC
TCCATTTACCAATTTGATTTTTGCAATTTTCAAGGAGCAACTGATTGTTTCGATATGTACATATTACTCACGTATA
CCCCATTTCTTCCAGTCAGCCCAACATTTTCCACCAGTCTGTCCCACTCTGAAATCCTTCTCTCTTTCCC
CCTAAGTCTTTTGAAGTGTATCATGTACTGGTGGTTTCTCGGTCCCATCTCATCCATTTCTTTTCAATGGAGAC
TACAGCGTCAGCCAGCTCAGCCTTGGCTTTTAACTCAATATTCAGTCCATAGGGGTGGTTAAAAGTTGCTGCAA
GGCTGCAGGCACTGGCAGTGGGAAGAGGCAGACGACTAGATGACTTCTGCACITTTAGCTGGTTGAAAAGTACCA
CTCCCACTCTGAACATCTGGCCGTCCCTGCAAAGAGTGTACTGTGCTTGAAGCAGAGCACTCACACATAAATGGC
TGTGTGTGGAATTGCTTGCCAAAGAAGTTTCTAGCCTTTCCCTTTCCCTAACTGCATCAGGGAAGAATTCTTAT

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FIGURE 2354B

CTCTAGCTTGGTTTCCACATGAGGTTTTTCTGAGAAGGGCTTGGGACAAGAAGTCTGTCATGTTAGTTAAGCAGG
CAAGAAATCCTACTAATCCAGTTTTGTTTGAAAGTTGTTTGTCCGTATGATTTTTTAAAAGTCAAGTTTAATTC
AAAAAACCTTTTTTTTCTGAGATTACTTTGGGGTAATATTTAAATGAGAGACATTTTGTAACCTGTAAAATA
CATAGGGAATATAACATTCCAGTGTATACAAAGAAGGCAAATCTTTAATCAAATAAAGCGTATTATAAATGAG
AAAAAAAAAAAAAAAA

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FIGURE 2355

MVLLAAVCTKAGKAIVSRQFVEMTRTRIEGLLAAPKLMNTGKQHTFVETESVRYVYQPMKLYMVLITTKNSN
ILEDLET LRLFSRVIPEYCRAL ENEISEHCFDLIFAFDEIVALGYRENVNLAQIRTFTEMDSHEEKVFRVRET
QEREAKAEMRRKAKELQQARRDAERQGKKAPGFGGFGSSAVSGGSTAAMITETIIETDKPKVAPAPARPSGPSKA
LKLGAKEVDNFVDKLGSEGETIMSSSMGKRTSEATKMHAPPINMESVHMKIEEKITLTCGRDGGGLQNMELHGM
IMLRISDDKYGRIRLHVENEDKKGVLQTHPNVDKKLFTAESLIGLKNPEKSFPVNSDVGV LKWRLQTTEESFIP
LTINCWPSESGNGCDVNIEYELQEDNLELNDVVITIPLPSGVGAPVIGEIDGEYRHDSRRNTLEWCLPVIDAKNK
SGSLEFSIAGQPNDFFPVQVSFVSKKNYCNIQVKVTQVDGNSPVRFTETTFLVDKYEIL

[illegible]

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FIGURE 2357

MVLADLGRKITSALRSLSNATIINEEVLNAMLKEVCTALLEADVNIKLVKQLRENVKSAIDLEEMASGLNKRKMI
QHAVFKELVKLVDPGVKAWPTKKGQNVIMFVGLQGSGKTTTCSKLAYYYQRKGWKTCLICADTFRAGAFDQLKQ
NATKARIPFYGSYTEM DPVIIASEGVEKFKNENFEIIIVDTSGRHKQEDSLFEEMLQVANAIQPDNIVYVMDASI
GQACEAQAKAFKDKVDVASVIVTKLDGHAKGGGALSAVAATKSPIIFIGTGEHIDDFEPFKTQPFISKLLGMGDI
EGLIDKVNELKLDNEALIEKLKHGQFTLRDMYEQFQNMKMGPFQSILGMIPGFGTDFMSKNEQESMARLKKL
MTIMDSMNDQELDSTDGAKVFSKQPGRIQRVARGSGVSTRDVQELLTQYTKFAQMVKKMGGIKGLFKGGDMSKNV
SQSQMAKLNQQMAKMMDPRLHHMGGMAGLQSMRQFQQGAAGNMKGMMGFNNM

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FIGURE 2358

CTCAGACTGTCCTTCTCTCTGGACTGTAAGAATATGTCTCCAGGGCCAGTGTCTGCTGCGATCGAGTCCCACCT
TCCAAGTCCTGGCATCTCAATGCATCTGGGAAGCTACCTGCATTAAAGTCAGGACTGAGCACACAGGTGAACCTCCA
GAAAGAAGAAGCTATGGCCGCGAGTGATTCTGGAGAGCATCTTTCTGAAGCGATCCCAACAGAAAAAGAAAAACATC
ACCTCTAAACTTCAAGAAGCGCCTGTTTCTCTTGACCGTGACACAACTCTCTACTATGAGTATGACTTTGAACG
TGGGAGAAGAGGCAGTAAGAAGGGTTCAATAGATGTTGAGAAGATCACTTGTGTTGAAACAGTGGTTCCTGAAAA
AAATCCTCCTCCAGAAAGACAGATTCCGAGAAGAGGTGAAGAGTCCAGTGAAATGGAGCAAATTTCAATCATTGA
AAGGTTCCCTTATCCCTTCCAGGTTGTATATGATGAAGGGCCTCTCTACGTCTTCTCCCCAAGTGAAGAACTAAG
GAAGCGGTGGATTACCAGCTCAAAAACGTAATCCGGTACAACAGTGATCTGGTTTCAAAAATATCACCTTGCTT
CTGGATCGATGGGCAGTATCTCTGCTGCTCTCAGACAGCCAAAAATGCTATGGGCTGCCAAATTTTGAGAACAG
GAATGGAAGCTTAAACCTGGGAGTTCTCACCAGGAAGACAAAAAGCCTCTTCCCCAACGCTGAGGAGGACCA
GATCTTGAAAAAGCCACTACCGCTGAGCCAGCAGCAGCACCAGTCTCCACAAGTGAGCTGAAAAAGGTTGTGGC
CCTTTATGATTACATGCCAATGAATGCAATGATCTACAGCTGCGGAAGGGTGATGAATATTTTATCTTGGAGGA
AAGCAACTTACCATTGAGAGCAGAGATAAAAATGGGCAGGAAGGCTACATTCTAGTAACTATGTCACTGA
AGCAGAAGACTCCATAGAAATGTATGAGTGGTATTCCAAACACATGACTCGGAGTCAGGCTGAGCAACTGCTAAA
GCAAGAGGGGAAAGAAGGAGGTTTTCATTGTCAGAGACTCCAGCAAAGCTGGCAAATATACAGTGTCTGTGTTTGC
TAAATCCACAGGGGACCTCAAGGGTGATACGTCATTATGTTGTGTGTTCCACACCTCAGAGCCAGTATTACCT
GGCTGAGAAGCACCTTTTACGACCATCCCTGAGCTCATTAACTACCATCAGCACAACTCTGCAGGACTCATATC
CAGGCTCAAATATCCAGTGTCTCAACAAAAACAAGATGCACCTTCCACTGCAGGCTGGGATACGGATCATGGGA
AATTGATCCAAAGGACCTGACCTTCTTGAAGGAGCTGGGGACTGGACAATTTGGGGTAGTGAAGTATGGGAAATG
GAGAGGCCAGTACGACGTGGCCATCAAGATGATCAAAGAAGGCTCCATGTCTGAAGATGAATTCATTGAAGAAGC
CAAAGTCATGATGAATCTTTCCCATGAGAAGCTGGTGCAGTTGTATGGCGTCTGCACCAAGCAGCGCCCATCTT
CATCATCACTGAGTACATGGCCAATGGCTGCCTCTGAAGTACCTGAGGGAGATGCGCCACCGCTTCCAGACTCA
GCAGCTGCTAGAGATGTGCAAGGATGTCTGTGAAGCCATGGAATACCTGGAGTCAAAGCAGTTCTTCAACCGAGA
CCTGGCAGCTCGAAACTGTTTGGTAAACGATCAAGGAGTTGTTAAAGTATCTGATTTCGGCCTGTCCAGGTATGT
CCTGGATGATGAATACACAAGCTCAGTAGGCTCCAAATTTCCAGTCCGGTGGTCCCCACCGGAAGTCTGATGTA
TAGCAAGTTCAGCAGCAAATCTGACATTTGGGCTTTTGGGGTTTTGATGTGGGAAATTTACTCCCTGGGGAAGAT
GCCATATGAGAGATTTACTAACAGTGAGACTGCTGAACACATTGCCCAAGGCCTACGTCTCTACAGGCTCATCT
GGCTTCAGAGAAGGTATATACCATCATGTACAGTTGTTGGCATGAGAAAGCAGATGAGCGTCCCACTTTCAAAT
TCTTCTGAGCAATATTCTAGATGTCATGGATGAAGAATCTTGAGCTCGCCAATAAGCTTCTTGGTTCTACTTCTC
TTCTCCACAAGCCCCAATTTCACTTTCTCAGAGGAAATCCCAAGCTTAGGAGCCCTGGAGCCTTTGTGCTCCAC
TCAATACAAAAAGGCCCTCTCTACATCTGGGGATGCACCTCTTCTTTGATTCCCTGGGATAGTGGCTTCTGAGC
AAAGGCCAAAAAATTATTGTGCTGAAATTTCCCGAGAGAATTAAGACAGACTGAATTTGGCATGAAAAATTTT
TTAGGAGGGAGGATGTAAATAGCCGCACAAAGGGGTCCAACAGCTCTTTGAGTAGGCATTGGTAGAGCTTGGGG
GTGTGTGTGTGGGGGTGGACCGAATTTGGCAAGATGAAATGGTGTCAAAAGATGGGAGGGGAGGGTGTTTTGA
TAAATAAATTCTAGAAAGCTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 2359

MAAVILESIFLKRSQQKKKTSPLNFKKRLFLLTVHKLSYYEYDFERGRGSKKGSIDVEKITCVETVVPEKNPPP
ERQIPRRGEESSEMEQISIIERFPYPFQVVYDEGPLYVFSPTTEELRKRWIHQLKNVIRYNSDLVQKYHPCFWIDG
QYLCCSQTAKNAMGCQILENRNGSLKPGSSHRKTKKPLPPTPEEDQILKKPLPPEPAAAPVSTSELKKVVALYDY
MPMNANDLQLRKGDYFILEESNLPWWRARDKNGQEGYIPSNYVTEAEDSIEMYEWYSKHMTRSQAQQLLKQEGK
EGGFIVRDSSKAGKYTVSVFAKSTGDPQGVIRHYVVCSTPQSQYYLAEKHLFSTIPELINYHQHNSAGLISRLKY
PVSQQKNAPSTAGLGYGSWEIDPKDLTFLKELGTGQFVVKYGKWRGQYDVAIKMIKEGSMSEDEFIEEAKVMM
NLSHEKLVQLYGVCTKQRPIFIITEYMANGCLLNYLREMRHRFQTQQLLEMCKDVCEAMEYLESKQFLHRDLAAR
NCLVNDQGVVKVSDFGLSRYVLDDEYTTSSVGSKFPVRWSPPEVLMYSKFSSKSDIWAFGVLMWEIYSLGKMPYER
FTNSETAEHIAQGLRLYRPHLASEKVYTIMYSCWHEKADERPTFKILLSNILDVMDEES

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FIGURE 2360A

GAATTCCTCAGCTCTCTGCTCGCTCTGCTCGCAGTCACAGACACTTGAGCACACGCGTACACCCAGACATCTTCGG
GCTGCTATTGGATTGACTTTGAAGTTCTGTGTGGGTCGCCGTGGCTGCATGTTTGAATCAGGTGGAGAAGCACT
TCAACGCTGGACGAAGTAAAGATTATTGTTGTTATTTTTTTTCTCTCTCTCTCTCTCTTAAGAAAGGAAAATA
TCCCAAGGACTAATCTGATCGGGTCTTCCTTCATCAGGAACGAATGCAGGAATTTGGGAAGTGGAGCTGTGCAAGT
GCTGAAGAAGGAGATTGTTTGGAGGAAACAGGAAAGAGAAAGAAAGGAAGGAAAAATACATAATTTAGGGA
CGAGAGAGAGAAGAAAAACGGGGACTATGGGGAGAAAAAGATTACAGATTACGAGGATTATGGATGAACGTAACA
GACAGGTGACATTTACAAAGAGGAAATTTGGGTTGATGAAGAAGGCTTATGAGCTGAGCGTGCTGTGTGACTGTG
AGATTGCGCTGATCATCTTCAACAGCACCAACAAGCTGTTCCAGTATGCCAGCACCGACATGGACAAAGTGCTTC
TCAAGTACACGGAGTACAACGAGCCGCATGAGAGCCGGACAAACTCAGACATCGTGGAGACGTTGAGAAAGAAGG
GCCTTAATGGCTGTGACAGCCAGACCCGATGCGGACGATTCCGTTAGGTCACAGCCCTGAGTCTGAGGACAAGT
ACAGGAAAATTAACGAAGATATTGATCTAATGATCAGCAGGCAAGATTGTGTGCTGTTCCACCTCCCAACTTCG
AGATGCCAGTCTCCATCCCAGTGTCCAGCCACAACAGTTTGGTGTACAGCAACCCTGTGAGTCACTGGGAAACC
CCAACTATTGCCACTGGCTCACCCTTCTCTGCAGAGGAATAGTATGCTCTCTGGTGTAAACATCGACCTCCAA
GTGCAGGTAACACAGGTGGTCTGATGGGTGGAGACCTCAGCTGTGGTGCAGGCACAGTGCAGGGAACGGGTATG
GCAATCCCCGAAACTCACCAGTCTGCTGGTCTCAGCTGGAACCTGGAACCTGGAACCTGGAACCTGGAACCTGGA
CCCCAATGAATTTAGGAATGAATAACCGTAAACAGATCTCCGAGTTCTTATTCACCAGGCGACGAAGAATACGA
TGCCATCAGTGTCTGAGGATGTGACCTGCTTTTGAATCAAAGGATAAATAACTCCAGTCCGCTCAGTCATTGG
CTACCCAGTGGTTTTCCGTAGCAACTCCTACTTTACAGGACAAGGAATGGGAGGATATCCATCAGCCATTTCAA
CAACATATGGTACCGAGTACTCTCTGAGTAGTGACACCTGTCATCTCTGCTGCGGTTTTAACACCGCCAGCGCTC
TTCACCTTGGTTAGTAACTGGCTGGCAACAGCAACACCTACATAACATGCCACCATCTGCCCTCAGTCAGTTGG
GAGCTTGCACTAGCACTCATTTATCTCAGAGTTCAAATCTCTCCCTGCCTTCTACTCAAAGCCTCAACATCAAGT
CAGAACCTGTTTTCTCTCTAGAGACCGTACCACCACCCCTTCGAGATACCCACAACACACGCGCCACGAGGCGG
GGAGACTCTCTCTCTGACAGCTTGAGCAGCTGTAGCAGTTCTGACGACGGGAGCGACCGAGAGGATCACCGGAACG
AATTCCACTCCCCCATTGGACTCACCAGACCTTCGCCGGACGAAAGGGAAAGTCCCTCAGTCAAGCGCATGCGAC
TTTTCTGAAGGATGGGCAACATGATCAGATTATTACTTACTAGTTTTTTTTTTTTTTTCTTGCAGTGTGTGTGTGTC
TATACCTTAATGGGGAAGGGGGTCGATATGCATTATATGTGCCGTGTGTGGAAAAAAGTCAAGTACTCT
GTTTTGTAAAGTACTTTTTAAATTGCCTCAGTGATACAGTATAAAGATAAACAGAAATGCTGAGATAAGCTTAGC
ACTTGAGTTGTACAACAGAACACTTGTACAAAATAGATTTTAAGGCTAACTTCTTTTACTGTTGTGCTCCTTTG
CAAAATGTATGTTACAATAGATAGTGTGATGTTGCAGGTTCAACGTTATTTACATGTAAATAGACAAAAGGAAAC
ATTTGCCAAAAGCGGCAGATCTTTACTGAAAGAGAGAGCAGCTGTTATGCAACATATAGAAAAATGTATAGATGC
TTGGACAGACCCGGTAATGGGTGGCCATTGGTAAATGTTAGGAACACACCAGGTCACCTGACATCCCAAGAATGC
TCACAAACCTGCAGGCATATCATTGGCGTATGGCACTCATTAAAAAGGATCAGAGACCATTAAAAGAGGACCATA
CCTATTAAAAAATATGTGGAGTTGGAGGGCTAACATATTTAATTAAATAAATAAATAAATCTGGGCTGCTGATCT
CTTATTAAATAAATAAATAAATAAATATGTACATTACATTTTGTCTTATTTTCAATAAAGGTAAGACAGAGTTTGC
AAAGCATTTGTGGCTTTTTGTAGTTTACTTAAGCCAAAATGTGTTTTTTTCCCTTGATAGCTTCGCTAATATTT
TAAACAGTCTGTAAAAAACCAAAAGGACTTTTTGTATAGAAAGCACTACCCTAAGCCATGAAGAACTCCATGC
TTTGCTAACCAAGATAACTGTTTTCTCTTTGTAGAAGTTTTGTTTTTGAATGTGTATTCTAATTATATAAAT
ATTAAGAATCTTTAAAAAATCTGTGAAATTAACATGCTTGTGTATAGCTTTCTAATATATATAATATATGGT
AATAGCAGAAGTTTGTATCTTAATAGCGGGAGGGGGTATATTTGTGCAGTTGCACATTTGAGTAACTATTTT
CTTCTGTTTTCTTTTACTCTGCTTACATTTTATAAGTTTAAGGTCAGCTGTCAAAGGATAACCTGTGGGGTTA
GAACATATCATTGCAACACCCTAAATTGTTTTTAATACATTAGCAATCTATTGGGTCAACTGACATCCATTGT
ATATACTAGTTTTCTTTCATGCTATTTTTATTTTGTGTTTTTGCATTTTATCAAATGCAGGGCCCCCTTTCTGATCT
CACCATTTACCATGCATCTTGGAAATTCAGTAAGTGCATATCCTAAGTGCCTATTTCTAAATCATCTGGTTGG
TTTTCAGCCTAGAATTTGATACGCTTTTTAGAAATATGCCAGAATAGAAAAGCTATGTTGGGGCACATGCTCTG
CAAATATGGCCCTAGAAACAAGTGATATGGAATTTACTTGGTGAATAAGTTATAAATCCACAGAAGAAAAATG
TGAAAGACTGGGTGCTAGACAAGAAGGAAGCAGGTAAAGGGATAGTTGCTTTGTATCCGTTTTTAATTATTTA
ACTGACCCTTGACAATCTTGTACGAATATAGGACTGTTGAACAATCCCGGTGTGTCAGGACCCCAATGTCAC
TTCTGCATAAAGCATGTATGTCATCTATTTTTCTTCAATAAAGAGATTTAATAGCCATTTCAAGAAATCCCAT

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FIGURE 2360B

AAGAACCTCTCTATGTCCCTTTTTTTAATTTAAAAAATGACTCTTGTCTAATATTCGTCTATAAGGGATTAATT
TTCAGACCCCTTTAATAAGTGAGTGCCATAAGAAAGTCAATATATATTGTTTTAAAAGATATTTTCAGTCTAGGAAAG
ATTTTCCTTCTCTTGAATGTGAAGATCTGTCGATTTCATCTCCAATCATATGCATTGACATACACAGCAAAGAAG
ATATAGGCAGTAATATCAACACTGCTATATCATGTGTAGGACATTTCTTATCCATTTTTTCTCTTTACTTGCTAT
AGTTGCTATGTGTTTCTCATTGTAAAAGGCTGCCGCTGGGTGGCAGAAGCCAAGAGACCTTATTAAGTAGGCTAT
ATTTTCTTAACTTGATCTGAAATCCACAATTAGACCACAATGCACCTTTGGTTGTATCCATAAAGGATGCTAGC
CTGCCTTGACTAATGTTTTATATATT

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FIGURE 2361

MGRKKIQITRIMDERNRQVTFTRKRFGLMKKAYELSVLCDCEIALIIFNSTNKLQYASTDMKVLLKYTEYNEP
HESRTNSDIVETLRKKGLNGCDSPDPDADDSVGHSPESDKYRKINEDIDLMISRQRLCAVPPPNFEMPVSIIPVS
SHNSLVYSNPVSSLGNPNLLPLAHPQLQRNSMSPGVTHRPPSAGNTGGLMGGDLTSGAGTSAGNGYGNPRNSPGL
LVSPGNLKNMQAKSPPPMNLGMNNRKPDLRVLIIPPGSKNTMPVSSEDVDLLLNRINNSQSAQSLATPVVSVAT
PTLPGQGMGGYPSAISTTYGTEYSLSSADLSSLSGFNTASALHLGSVTGWQQQHLHNMPPSALSQLGACTSTHLS
QSSNLSLPSTQSLNIKSEPVSPPRDRTTTTPSRYPQHTRHEAGRSPVDSLSSCSSSYDGSREDHRNEFHSPIGLT
RPSPPERESPSVKRMRLSEGWAT

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FIGURE 2362

CCACCATGCTCGCCCTGGAGGCTGCACAGCTCGACGGGCCACACTTCAGCTGTCTGTACCCAGATGGCGTCTTCT
ATGACCTGGACAGCTGCAAGCATTCCAGCTACCCTGATTAGAGGGGGCTCCTGACTCCCTGTGGGACTGGACTG
TGGCCCCACCTGTCCAGCCACCCCTATGAAGCCTTCGACCCGGCAGCAGCCGCTTTTAGCCACCCCCAGGCTG
CCCAGCTCTGCTACGAACCCCCACCTACAGCCCTGCAGGGAACCTCGAACTGGCCCCCAGCCTGGAGGCCCCGG
GGCCTGGCCTCCCCGCATACCCACGGAGAACTTCGCTAGCCAGACCCTGGTTCCCCCGGCATATGCCCCGTACC
CCAGCCCTGTGCTATCAGAGGAGGAAGACTTACCGTTGGACAGCCCTGCCCTGGAGGTCTCGGACAGCGAGTCGG
ATGAGGGCCCTCGTGGCTGGCCCCGAGGGGAAGGGATCCGAGGGACTCGCAAGAAGCTGCGCCTGTACCAGTTCCCT
GCTGGGGCTACTTGACCGCGGGGACATGCGTGAGTGCGTGTGGTGGGTGGAGCCAGGCGCCGGCGTCTTCCAGTT
CTCCTCCAAGCACAAAGAACTCCTGGCGCGCCGCTGGGGCCAGCAGAAGGGGAACCGCAAGCGCATGACCTACCA
GAAGCTGGCGCGCGCCCTCCGAACTACGCCAAGACCGGCGAGATCCGCAAGGTCAAGCGCAAGCTCACCTACCA
GTTTCGACAGCGCGCTGCTGCCTGCAGTCCGCCGGGCCCTGAGCACACCCGAGGCTCCACCTGCGGAGCCGCTGGG
GGACCTCACGTCCCAGCCAGGATCCCCCTGGAAGAAAAAGGGCGTCCCCACACTCTAGGTGATAGGACTTACGCA
TCCCCACCTTTTGGGGTAAGGGGAGTGCTGCCCTGCCATAATCCCAGCCAGCCCGGGCCTGTCTGGGATTCC
CCACTTGTGCCTGGGGTCCCTCTGGGATTTCTTTGTCTGTACAGACTCCCTGGGATCCTCATGTTTTGGGTGAC
AGGACCTATGGACCACTATACTCGGGGAGGCAGGGTAGCAGTGCTTCCAGAGTCCCAAGAGCTTCTCTGGGATTT
TCTTGTGATATCTGATTCCCCAGTGAGGCCTGGGACCTTTTTAAGATCGCTGTGTGTCTGTAAACCCTGAATCTC
ATCTGGGGTGGGGCCCTGCTGGCAACCCTGAGCCCTGTCCAAGGTTCCCTCTTGTGATCTGAGATTTCTTAG
TTATGCTCGGGGCCCTCTGGGAGCTGTTATCATCTCAGATCTCTTCGCCCATCTATGGCTGTGTTGTCACATCTG
TCCCCTCATTTTTGAGATCCCCCAATTCTCTGGAACCTATTCTGCTGCCCTTTTTATGTGTCTGGAGTTCCCCAA
TCACATCTAGGGCTCCTCC

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FIGURE 2363

MLALEAAQLDGP HFSCLYPDGVFYDLD SCKHSSYPDSEGAPDSLWDWTVAPPVPATPYEAFDPAAAAF SHPQAAQ
LCYEPPTYSPAGNLELAPSLEAPGPGLPAYPTENFASQTLVPPAYAPYPSVLSEEDLPLDSPALEVSDSESE
ALVAGPEGKGSEGLARSCACTSSCWGY

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FIGURE 2364

AGCTTTCTGGGGCAGGCCAGGCCTGACCTTGGCTTTGGGGCAGGGAGGGGGCTAAGGTGAGGCAGGTGGCGCCAG
CAGGTGCACACCCCAATGCCCATGAGCCCAGACACTGGACGCTGAACCTCGCGGACAGTTAAGAACCCAGGGGCCCT
CTGCGCCTGGGCCCAGCTCTGTCCACACCGCGGTACATGGCACCACCTCTCTTGACAGCTCCACCAAGGGCCC
ATCGGTCTTCCCCCTGGCACCTCCTCCAAGAGCACCTCTGGGGGCACAGCGGCCCTGGGCTGCCTGGTCAAGGA
CTACTTCCCCGAACCGGTGACGGTGTCTGTGGAACCTCAGGCGCCCTGACCAGCGGCGTGCACACCTTCCCGGCTGT
CCTACAGTCCCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCTGCCCTCCAGCAGCTTGGGCACCCAGACCTA
CATCTGCAACGTGAATCACAAAGCCCAGCAACACCAAGGTGGACAAGAAAGTTGGTGAGAGGCCAGCACAGGGAGG
GAGGGTGTCTGTCTGGAAGCAGGCTCAGCGCTCCTGCCCTGGACGCATCCCGGCTATGCAGCCCCAGTCCAGGGCAG
CAAGGCAGGCCCCGTCTGCCCTTTCACCCGGAGCCTCTGCCCGCCCCACTCATGCTCAGGGAGAGGGTCTTCTGG
CTTTTCCAGGCTCTGGGCAGGCACAGGCTAGGTGCCCTTAACCCAGGCCCTGCACACAAAGGGGCAGGTGCTG
GGCTCAGAGGCTCCAAGAGCCATATCCGGGAGGACCTTGCCCTGACCTAAGCCCACCCCAAAGGCCAAACTCTC
CACTCCCTCAGTCCGACACCTTCTCTCCTCCAGATTCCAGTAACCTCCAATCTTCTCTCTGCAGAGCCCCAAAT
CTTGTGACAAACTCACACATGCCACCGTGCCAGGTAAAGCCAGCCCAGGCCTCGCCCTCCAGCTCAAGGGGG
ACAGGTGCCCTAGAGTAGCCTGCATCCAGGGACAGCCCCAGCCGGGTGCTGACACGTCCACCTCCATCTCTTCC
TCAGCACCTGAACCTCGGGGGACCGTCAGTCTTCTCTTCCCCCCCCAAAACCAAGGACACCTCATGATCTCC
CGGACCCCTGAGGTACATGCGTGGTGGTGGACGTGAGCCACGAAGACCCTGAGGTCAAGTTCAACTGGTACGTG
GACGGCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAACAGCACGTACCGGGTGGTCAGC
GTCCTCACCGTCTTGACACCAGGACTGGCTGAATGGCAAGGAGTACAAGTGCAAGGTCTCCAACAAAGCCCTCCCA
GCCCCATCGAGAAAACCATCTCCAAAGCCAAAGGTGGGACCCGTGGGGTGGAGGGCCACATGGACAGAGGCCG
GCTCGGCCCCACCTCTGCCCTGAGAGTGACCGCTGTACCAACCTCTGTCTACAGGGCAGCCCCGAGAACCACAG
GTGTACACCCTGCCCCCATCCCGGATGAGCTGACCAAGAACCAGGTGAGCTGACCTGCCTGGTCAAAGGCTTC
TATCCCAGCGACATCGCCGTGGAGTGGGAGAGCAATGGGCAGCCGGAGAACAACTACAAGACCACGCCTCCCGTG
CTGGACTCCGACGGCTCCTTCTTCTCTACAGCAAGCTCACCGTGACAAGAGCAGGTGGCAGCAGGGGAACGTC
TTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACGCAGAAGAGCCTCTCCCTGTCTCCGGGTAAA
TGAGTGCGACGGCCGGCAAGCCCCGTCCCCGGGCTCTCGCGGTGCGACGAGGATGCTTGGCACGTACCCCTGT
ACATACTTCCCGGGCGCCAGCATGGAATAAAGCACCCAGCGCTGCCCTGGGCCCCCTGCGAGACTGTGATGGTT
CTTCCACGGGTGAGCCGAGTCTGAGGCCTGAGTGGCATGAGGGAGGCAGAGCGGGTC

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FIGURE 2365

STKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVFSSSL
GTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVDVSH
EDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQP
REPQVYITLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPVLDSGGSFFLYSKLTVDKSRWQ
QGNVFSQSVMEALHNHYTQKSLSLSPGK

2604/2682
FIGURE 2366

GCCCCGCGCGCGCGCTCTTTCTCCGACAGCTGCCGGGGTGCCCTGCAAGCTGTTCCGCGCGTCCTGCCCGTCT
GTCCCCGCGGGTCGTGCCCCGCCACAGCCGCGCCATGACCACCCAGCAGATAGACCTCCAGGGCCCGGGGCCGTG
GGGCTTCCGCCTCGTGGGCGGCAAGGACTTCGAGCAGCCTCTCGCCATTTCGCGGTCACTCCTGGAAGCAAGGC
GGCTCTAGCTAATTTATGTATTGGAGATGTAATCACAGCCATTGATGGGGAAAATACTAGCAATATGACACACTT
GGAAGCTCAGAACAGAATCAAAGGCTGCACAGACAATTGACTCTCACTGTAGCCAGATCTGAACATAAAGTCTG
GTCTCCTCTGGTGACGGAGGAAGGGAAGCGTCATCCATACAAGATGAATTTAGCCTCTGAACCCCAGGAGGTCTT
GCACATAGGAAGCGCCCAACCGAAGTGCCATGCCCTTTACCGCCTCGCCTGCCCTCCAGCACTACTGCCAGGGT
CATCACAACACAGTACAACAACCCAGCTGGCCTCTACTCTTCTGAAAATATCTCCAACCTTCAACAATGCCCTGGA
GTCAAAGACTGCTGCCAGCGGGGTGGAGGCGAACAGCAGACCCCTTAGACCATGCTCAGCCTCCAAGCAGCCTTGT
CATCGACAAAGAATCTGAAGTTACAAGATGCTTCAGGAGAAACAGGAGTTGAATGAGCCCCGAAACAGTCCAC
GTCTTTCTTGGTTTTGCAGGAAATCCTGGAGTCTGAAGAAAAAGGGGATCCCAACAAGCCCTCAGGATTGAGAAG
TGTTAAAGCTCCTGTCACTAAAGTGGCTGCGTCGATTGGAATGCTCAGAAGTTGCCTATGTGTGACAAATGTGG
CACTGGGATTGTTGGTGTGTTTGTGAAGCTGCGGGACCGTCACCGCCACCCTGAGTGTATGTGTGCACTGACTG
TGGCACCAACCTGAAACAGAAGGGCCATTTCTTTGTGGAGGATCAAATCTACTGTGAGAAGCATGCCCCGGGAGCG
AGTCACACCACCTGAGGGTTATGAAGTGGTCACTGTGTTCCCCAAGTGAGCCAGCAGATCTGACCACTGTTCTCC
AGCAGGCCTCTGCTGCAGCTTTTTCTCTCAGTGTCTGGCCCTCTCCTCTCTTGAAAGTTCTCTGCTTACTTTGG
TTTTCCCTCTGCTTGTAACAAATTGAGTCCCCTCCCTGCCCTTGGTTAATTGACTCACACCAGCTGTGCGATGCCC
GCTTTTACAATTAAAGGAAAACGTGTTTGTTCAGTGTACCTTGTGAGCAACACTGTGTCCCTTCGCCCCACCGT
TCTTCTCTGCTGCATTTGGACATCAGCCAAATTTGAACCAATCAAATATAACGTGTCTGACACTGATTTTGT
TTACTCAATAAATGTATAGACTACAAAAAAAAAAAAA

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FIGURE 2367

MTTQQIDLQGPWPWFRLVGGKDFEQPLAISRVTPGSKAALANLCIGDVITAIDGENTSNMTHLEAQNRIKGCTD
NLTLTVARSEHKVWSPLVTEEGKRHPYKMNLASEPQEV LHIGSAHNRSAMPFTASPASSTTARVITNQYNNPAGL
YSSENISNFNNALESKTAASGVEANSRPLDHAQPPSSLVIDKESEVYKMLQEKQELNEPPKQSTSFLVLQEILES
EEKGDPNKPSPGFRSVKAPVTKVAASIGNAQKLPMCDKCGTGIVGVFVKLRDRHRHPECYVCTDCGTNLKQKGHFF
VEDQIYCEKHARERVTPPEGYEVVTVFPK

[illegible]

2607/2682
FIGURE 2369

MVEAIVEFDYQAQHDELTIISVGEIITNIRKEDGGWEGQINGRRGLFPDNFVREIKKEMKKDPLTNKAPEKPLH
EVPSGNSLLSSETILRTNKRGERRRRCQVAFSYLPQNDDELELKVGDIIIEVVGEVEEGWEGVLNGKTGMFPSN
FIKELSGESDELGISQDEQLSKSSLRETTGSESDGGSSSTKSEGANGTVATAAIQPKVKVGVGFGDIFKDKPIK
LRPRSIEVENDFLPVEKTIGKKLPATTATPDSSKTEMDSRTKSKDYCKVIFPYEAQNDELTIKEGDIVTLINKD
CIDVGWWEDELNGRRGVFPDNFVKLLPDPFEKEGNRPKKPPPSAPVIKQAGTTERKHEIKKIPPERPEMLPNR
TEEKERPEREPKLDLQKPSVPAIPPKPRPPKTNLSRPGALPPRRPERPVGPLTHTRGDSPKIDLAGSSLSGIL
DKDLSDRSNDIDLEGFDSVVSSTEKLSHPTTSRPKATGRRPPSQSLTSSSLSSPDIFDSPSPEEDKEEHISLAHR
GVDASKKTSKTVTISQVSDNKASLPKPGTMAAGGGGPAPLSSAAPSPLSSSLGTAGHRANSPSLFGTEGKPKME
PAASSQAAVEELRTQVRELRSIETMKDQOKREIKQLSELDEEKKIRLRLQMEVNDIKKALQSK

2608/2682
FIGURE 2370

CCCGCTTCTGGAGTGTATCGTCACCATGTCCCTAATGGTCTCGGCTGGCCGGGGCCTGGGGGCCGTGTGGTCCC
CAACCCACGTGCAGGTGACGGTGCTGCAGGCGGGGGCCTGCGGGCCAAGGGCCCCGGGGGCACGAGCGACGCGT
ACGCGGTGATCCAGGTGGGCAAGGAGAAGTACGCCACCTCCGTGTCGGAGCGCAGCCTGGGCGCGCCCGTGTGGC
GCGAGGAGGCCACCTTCGAGCTGCCATCGCTGCTGTCTCCGGACCCGCGGCCGCCACCTGCAGCTCACCG
TGCTGCACCGCGCGCTGCTCGGCCTCGACAAGTTCTTGGGCCGCGCCGAGGTGGACCTGCGGGATCTGCACCGCG
ACCAGGGCCCGCAGGAAGACGCAGTGGTATAAGTTGAAATCCAAACCAGGAAAGAAGGACAAGGAGCGAGGAGAAA
TTGAGGTTGACATCCAGTTTATGAGAAACAACATGACTGCCAGCATGTTTGACCTTCTATGAAAGACAAGTCTC
GGAATCCATTTGGAAGCTGAAGGACAAGATCAAGGGGAAGAATAAGGACAGTGGGTGAGACACCGCCTCCGCCA
TCATCCCTAGCAGCACACCTTCGGTCGACAGTGATGATGAGTGTGGTTAAAGACAAGAAAAAGAAATCAAAGA
TCAAGACCTTACTTTCCAAGTCAAATTTGCAGAAGACGCCTCTTTCCCAGTCCATGTCTGTCTGCCGACTTCAA
AGCCAGAAAAAGTGCTGCTTCGTCCCGGAGACTTTCAGTCCCAGTGGGATGAAGATGACAATGAGGATGAGTCTT
CCTCGGCCTCGGATGTGATGCTCACAAGAGAACACGAGTACGGATCTTAAGCAACTGAACCAGGTCAACTTTA
CCCTTCCCAAGAAGGAAGGACTTTCTTTCTTGGTGGCCTTCGGTCTAAGAATGATGTCTTTCCCGCTCTAATG
TCTGCATCAATGGGAACCATGTTTACCTGGAGCAGCCCCAACCCACCGGTGAGATCAAGGATAGCAGCCCGTCTT
CCTCCCCATCCCCAAGGGTTTCAGAAAGAAAACATTGTTCTTCTACAGAGAACCTGGCGGCTGGGTCTTGGA
AGGAGCCTGCTGAAGGAGGTGGGCTGTCTACTGACAGGGATGTCTCCGAATCTTCCACCAAGGACTCCTTGAAGT
CTATGACCTTGCCGACCTACCGACCTGCCCCACTGATCAGTGGGGACCTCAGGGAAAAAATGGCCCCCGCAAAC
CAGAGGCCACAAAAGAAGCTAAGGAGAGCAAGAAGCCAGAGAGCAGGAGGTCTCTTTGCTGTCTCTGATGACGG
GGAAGAAGGATGTGGCTAAGGGCAGTGAAGGTGAAAACCTTCTCACGGTCCCAGGGAGGGAGAAGGAAGGCATGC
TGATGGGGGTAAAGCCGGGGGAGGACGCATCGGGGCCTGCTGAAGACCTTGTGAGAAGATCTGAGAAAGATACTG
CAGCTGTTGTCTCCAGACAGGGCAGCTCCCTGAACCTCTTTGAAGATGTGCAGATCACAGAACCAGAAGCTGAGC
CAGAGTCCAAGTCTGAACCGAGACCTCCAATTTCTCTCCGAGGGCTCCCCAGACCAGAGCTGTCAAGCCCCGAC
TTCATCCTGTGAAGCCAATGAATGCCACGGCCACCAAGTTTGCTAACTGCAGCTTGGGAACCTGCCACCATCATCA
GTGAGAACTTGAACAATGAGGTCATGATGAAGAAATACAGCCCCTCGGACCTGCATTGTCATATGCGCAGCTGA
CCCACGATGAGCTGATTGAGCTGGTCTCAAACAGAAGGAAACGATAAGCAAGAAGGAGTTCCAGGTCCGCGAGC
TGGAAGACTACATTGACAACCTGCTTGTGAGGGTCATGGAAGAAACCCCCAATATCCTCCGCATCCCGACTCAGG
TTGGCAAAAAAGCAGGAAAGATGTAAATCAGCAGAAAAAAACACCGAGACGTTTCTGTGACTTCACTTTACCT
GCTCCAGGGGTCAAGGACTTGCCCTTGCCCTGATAACCAGCCAGCAGGCTCCGAATCACCATCTCCCTCACATGTTA
TCCGGCAAGAGT

2609/2682
FIGURE 2371

MSLMVSAGRGLGAVWSPTHVQVTVLQARGLRAGPGGTSDAYAVIQVGKEYATSVSERSLGAPVWREEATFELP
SLLSSGPAAAATLQLTVLHRALLGLDKFLGRAEVDLRDLHRDQGRRTQWYKLKSKPGKKDKERGEIEVDIQFMR
NNMTASMFDSLMDKSRNPFGLKDKIKGKNKDSGSDTASAIIPSTTPSVDSDDSVVKDKKKKSKIKTLLSKSN
LQKTPLSQSMSVLPTSKPEKVLLRPGDFQSQWDEDDNEDESSASDVMSHKRTASTDLKQLNQVNFTLPKKEGLS
FLGGLRSKNDVLSRSNVCINGNHVYLEQPQPTGEIKDSSPSSSPKGFRRKTLFSSTENLAAGSWKEPAEGGGL
STDRDVSESSTKDSLKSMTLPTYRPAPLISGDLREKMAPANSEATKEAKESKKPESRRSSLLSLMTGKKDVAKGS
EGENLLTVPGREKEGMLMGVKPGEDASGPAEDLVRSEKDTAAVVSROGSSLNLFEDVQITEPEAEPESEKSEPRP
PISSPRAPQTRAVKPRLHPVKPMNATATKVANCSLGTATIISENLNNEVMMKKYSPSDPAFAYAQLTHDELIQLV
LKQKETISKKEFQVRELEDYIDNLLVRVMEETPNILRIPTQVGKKAGKM

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FIGURE 2372

AGCTGGGGCGCGGCCGCTGTCTGCACAGACAGCACCATGTCGCTCATGGTCGTCAGCATGGTGTGTGTTGGGTT
CTTCTTGCTGCAGGGGGCCTGGCCACATGAGGGAGTCCACAGAAAACCTTCCCTCCTGGCCACCCAGGTCCCCT
GGTGAAATCAGAAGAGACAGTCATCCTGCAATGTTGGTCAGATGTCAGGTTTCAGCACTTCCTTCTGCACAGAGA
AGGGAAGTTTAAGGACACTTTGCACCTCATTGGAGAGCACCATGATGGGGTCTCCAAGGCCAACTTCTCCATCGG
TCCCATGATGCAAGACCTTGCAGGGACCTACAGATGCTACGGTTCTGTTACTCACTCCCCCTATCAGTTGTCAGC
TCCCACTGACCCTCTGGACATCGTCATCACAGGTCTATATGAGAAAACCTTCTCTCTCAGCCCAGCCGGGCCCCAC
GGTTCTGGCAGGAGAGAGCGTGACCTTGTCTGCAGCTCCCGGAGCTCCTATGACATGTACCATCTATCCAGGGA
GGGGGAGGCCCCATGAACGTAGGTTCTCTGCAGGGCCCCAAGGTCAACGGAACATTCCAGGCCGACTTTCCTCTGGG
CCCTGCCACCCACGGAGGAACCTACAGATGCTTCGGCTCTTTCCGTGACTCTCCATACGAGTGGTCAAACCTCGAG
TGACCCACTGCTTGTTTCTGTGCACAGGAAACCTTCAAATAGTTGGCCTTCACCCACTGAACCAAGCTCCGAAAC
CGGTAACCCAGACACCTGCATGTTCTGATTGGGACCTCAGTGGTCAATCATCCTCTTCATCCTCCTCTCTTCTT
TCTCCTTCATCGCTGGTGTGCTGCAACAAAAAATGCTGTTGTAATGGACCAAGAGCCTGCAGGGAACAGAACAGT
GAACAGGGGAGGACTCTGATGAACAAGACCCTCAGGAGGTGACATATGCACAGTTGAATCACTGCGTTTTACACA
GAGAAAAATCACTCGCCCTTCTCAGAGGCCCAAGACACCCCAACAGATATCATCGGTACACGGAACCTTCCAAA
TGCTGAGCCCTGATCCAAAGTTGTCTCCTGCCCATGAGCACCACAGTCAGGCCTTGAGGGGATCTTCTAGGGAGA
CAACAGCCCTGTCTCAAACTGGGTTGCCAGCTCCAATGTACCAGCAGCTGGAATCTGAAGGCGTGAGTCTGCAT
CTTAGGGCATCGCTCTTCTCACACCACAAATCTGAACGTGCCCTCTCCCTTGCTTACAAATGTCTAAGGTCCCCA
CTGCCTGCTGGAGAGAAAAACACTCCTTTGCTTAGCCACAAATCTCCATTTCACTTGACCCCTGCCACCTCT
CCAACTAACTGGCTTACTTCTAGTCTACTTGAGGCTGCAATCACACTGAGGAACTCACAATTCCAAACATACA
AGAGGCTCCCTCTTAACACGGCACTTAGACACGTGCTGTTCCACCTTCCCTCATGCTGTTCCACCTCCCTCAGA
CTAGCTTTAGCCTTCTGTGTCAGCAGTAAACCTTATATATTTTTTAAAAATAATTTCAATGTAGTTTTCCCTCCTTC
AAATAAACATGTCTGCCCTCA

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FIGURE 2373

MSLMVSMVCVGFFLLQGAWPHEGVHRKPSLLAHPGPLVKSEETVILQCWSDVRFQHFLHREGKFKDTLHLIGE
HHDGVSKANFSIGPMMQDLAGTYRCYGSVTHSPYQLSAPSDPLDIVITGLYEKPSLSAQPGPTVLAGESVTLSCS
SRSSYDMYHLSREGEAHERRFSAAGPKVNGTFQADFPLGPATHGGTYRCFGSFRDSPYEWSNSSDPLLVSVTGNPS
NSWPSPTEPSSETGNPRHLHVLIGTSVVIILFILLFFLLHRWCCNKKNNAVMDQEPAGNRTVNREDSDEQDPQE
VTYAQLNHCVFTQRKITRPSQRPKTPPTDIIVYTELPNAEP

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FIGURE 2374

GGTGACCAAGAGTACATCTCTTTTCAAATAGCTGGATTAGGTCCTCATGCTGCTGTGGTCATTGCTGGTCATCTT
TGATGCAGTCACTGAACAGGCAGATTGCGTGACCCCTGTGGCGCCCTCTTCTGTCTTCGAAGGAGACAGCATCGT
TCTGAAATGCCAGGGAGAACAGAACTGGAATAATCAGAAGATGGCTTACCATAAGGATAACAAAGAGTTATCTGT
TTTCAAAAATTCTCAGATTTCTTATCCAAAGTGCAGTTTTAAGTGACAGTGGTAACTATTTCTGTAGTACCAA
AGGACAACCTCTTTCTCTGGGATAAACTTCAAATATAGTAAAGATAAAAGTCCAAGAGCTCTTTCAACGTCCTGT
GCTGACTGCCAGCTCCTTCCAGCCCATCGAAGGGGGTCCAGTGAGCCTGAAATGTGAGACCCGGCTCTCTCCACA
GAGGTTGGATGTTCAACTCCAGTTCTGCTTCTTCAGAGAAAACCAGGTCCTGGGGTCAGGCTGGAGCAGCTCTCC
GGAGCTCCAGATTTCTGCCGTGTGGAGTGAAGACACAGGGTCTTACTGGTGCAAGGCAGAAACGGTGACTCACAG
GATCAGAAAACAGAGCCTCCAATCCCAGATTACGTGCAGAGAATCCCCATCTCTAATGTAAGCTTGGAGATCCG
GGCCCCGGGGGACAGGTGACTGAAGGACAAAACCTGATCTGCTCTGCTCAGTGGCTGGGGGTACAGGAAATGT
CACATTCTCCTGGTACAGAGAGGCCACAGGAACAGTATGGGAAAGAAAACCCAGCGTTCCCTGTCAGCAGAGCT
GGAGATCCCAGCTGTGAAAGAGAGTGTATGCCGGCAAATATTACTGTAGAGCTGACAACGGCCATGTGCCTATCCA
GAGCAAGGTGGTGAATATCCCTGTGAGAATTCCAGTGTCTCGCCCTGTCTCACCCTCAGGTCTCCTGGGGCCCCA
GGCTGCAGTGGGGGACCTGCTGGAGCTTCACTGTGAGGCCCTGAGAGGCTCTCCCCCAATCTTGTACCAATTTTA
TCATGAGGATGTACCCCTTGGGAACAGCTCGGCCCTCTGGAGGAGGGGCTCCTTCAACCTCTCTTTGACTGC
AGAACATTCTGGAACTACTCCTGTGAGGCCAACACGGCCTGGGGGCCAGTGCAGTGAGGCAGTGCCAGTCTC
CATCTCAGGACCTGATGGCTATAGAAGAGACCTCATGACAGCTGGAGTTCTCTGGGGACTGTTTGGTGTCTTGG
TTTCACTGGTGTGCTTTGCTGTGTATGCCTTGTTCACAAGATATCAGGAGAAAGTTCTGCCACTAATGAACC
CAGAGGGGCTTCCAGGCCAAATCCTCAAGAGTTCACTTATTCAAGCCCCAACCCAGACATGGAGGAGCTGCAGCC
AGTGTATGTCAATGTGGGCTCTGTAGATGTGGATGTGGTTTATTCTCAGGTCTGGAGCATGCAGCAGCCAGAAAG
CTCAGCAAACATCAGGACACTTCTGGAGAACAAGGACTCCCAAGTCATCTACTCTTCTGTGAAGAAATCATAACA
CTTGGAGGAATCAGAAGGAAGATCAACAGCAAGGATGGGGCATCATTAAAGACTTGCTATAAAACCTTATGAAAA
TGCTTGAGGCTTATCACCTGCCACAGCCAGAACGTCCTCAGGAGGCACCTCCTGTCTATTTTGTCTCTGATGATG
TTTCTTCTCCAATATCTTCTTTTACCTATCAATATTTCATTGAAGTCTGCTACATCCAGACACTGTGCAAATAAA
TTATTTCTGTACCTTCTCTTAAAGCAATCAGTGTGTAAAGATTTGAGGGAAGAATGAATAAGAGATACAAGGTCT
CACCTTCATCTACTGTGAAGTGTGAGAACAGGACTTGATAGTGGTGTATTAAGTTATTTATGTGCTGCTGGATA
CAGTTTGCTAATATTTTGTGAGAATTTTTCAGAAATAGTTTCATTGGGAATATTGGCCTGAAATTTTCTTTTCCA
CTGTGCTCTGCCAGAAATGTTTGTATCAGGCTGATGCTGGCTTCATAGAATGAGTTAGGCAGGAGCCCTTCTCTCC
TTGATTTTTTGGCATAGTTTCAGCAGGATTGGTACCAGTTATTCTTTCTGCATCTTGTAGAATTACAGCTATGAAT
CCATCTGGTCTAGGCTTTTGTGTTGGTTGGTAAGTTTTTATTACTAATTCAACTTCAGCGCTTGATATTGGTC
TAGGAGGGGTTTCTGTCTCTTCTGTTCAATCTTGGGAGATTGTGTGTTTCCAGGAATTTAGCCGTTTCTCTCCA
GATTTTCTTCTTTATGTGCATCGACTTGAGTGTAACATAACTTATATGCACTGGGAAACCAAAAATCTGTGTG
ACTTGCTTTTATTGCAGCATTGTGTTTTATTTGGTAGTCTGGAAGTGAACCTGCAATATACCAAAGTATGCATAT
AGTTGCAAAAATGTGATTTTTGACATAGTAAATATGAGTATTGCAATAAACTATGATATTACTTTTGTAGTAT
ATAGAATAAAATGTAAATAATCT

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FIGURE 2375

MWEWKICNSHGARPFAEPAGWEFVNLLRHHKSFLIAPLCLSVFVSRPVLTLRSFGAQAAGDLELHCEALRGSP
PILYQFYHEDVTLGNSSAPSGGGASFNLSTAEHSGNYSCEANGLGAQCSEAVPVSISSGGWVLPYRV

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FIGURE 2376A

ACTTGGCAAATCCGAAGATTTTCCGGGATCTTTCAAAGCCCATGGGGGCTCAGACCAAGGAAAGGAAGCTGAAAT
TTATCCAGAGGTTTAAAGAAGTTGAGAAAAGTGAAGGAGACATGACTGTCCAGTGCCACTACTACACCCACTACT
CCTCGGCCATCATCGTGGCCTCTACCTGGTCCGGATGCCACCCCTTACCCAGGCCTTCTGCGCTTTGCAGGGCG
GAAGCTTCGACGTGGCAGACAGAATGTTCCACAGTGTGAAGAGCACGTGGGAGTCGGCCTCCAGAGAGAATGA
GTGACGTGAGGGAGCTGACCCAGAGTTCTTCTACCTGCCTGAGTTCTTAACCAACTGCAACGGGGTAGAGTTG
GCTGCATGCAGGACGGGACTGTGCTAGGAGACGTGCAGTCCCTCCCTGGGCTGATGGGGACCCCTCGGAAATTCA
TCAGCCTGCACAGAAAGGCCCTGGAAAGTGACTTTGTGTCAGTGCCAAACCTCCACCATTTGGATAGACCTTATTTTG
GGTACAAGCAGCAGGGGCCAGCCGAGTGGATGCTGTTAATATCTTCCACCCCTACTTCTACGGTGACAGAATGG
ACCTCAGCAGCATCACTGACCCCTCATCAAAGCACCATCCTGGGGTTTGTGACCAACTTTGGACAGGTGCCCA
AACAGCTCTTTACCAAACCTCAGCCAGGAGTGCAGCAGGGAAGCCTCTGCCTGGAAAGGATGTCTCCACCC
CCGTGAGCCTGCCTGGCCACCCACAGCCCTTTTCTACAGCCTGCAGTCGCTGAGGCCCTCCAGGTACAGGTCA
AAGGTGATTCCCTGGCCATGCATTGTTTGGTGTCTGTCCAGGGTTGTCCCTTCAGTGCGTGGGTTCTCTGGA
GGTCCAGCACACATACCTGGGCAAAGTATTGGGAGCTGACTTTGAATGGCTGCATCTCCAGTCACAGCCAGATT
CTAGGGGGGTGTCTCTCTGGGAAGTGTCTAGGAGCTCCTCTGTTAGACCCTAACTTCTGAAGACCCAGTCTCT
CTGTCTTTCTGTCTGTCTCTCTCACACACATACACACAGACACCTCTTTCAGGCACACACACATCTCTCTT
CCTCTTCTCTCTTTTATACATGCACACACATGTACACACATACCTTCTCTCTCAAGAGACCAGTGGAGA
GTCCCAAGTTTACAAGGAAGGATTACAGCCTCTGTGCTTTGGCCACTGGTCTCTTAAGCAGGGCAGGGGACTA
AGCTAAGCACTCTAAGCAGGCAGCAGTAGCTAAGAACATGTGCTCTGGGGCAGATGGCCAGGAGTGCATTCCA
GTCCTACTGCTTCCCTGACTGTGTGACCTTGGGCAAGCCATTGAACCTCCTTGTTCACGGGGATTGGAATAGCA
TTGAATGGATGCTACTACAGATTGTATTGATGCTTAGATAAATGAGCCTGCAGAGAGTTGGTGAGGAAAAGATG
AAAAACATGAGAAATAGGTTGAGCCAGTGAAGGGAGCCATGTGATTAGGGAGGGGAAGAGGGTCACTCTGGCCCT
ATTATTGAGAAACAGTTCTTCCAGGGACCAGGGGCTCCTCAACAAGGCCAGTCAGCAAGAGCGCAATGAGATGGG
CCACCTTCGGTGCCAGCACATAGTGGTGATTATTAGTCCATCTCTTCTGACCATAATTCACTGGCTTCTTGGC
TGCCACCAAGGTCAGAGAGGCTCTATAGAAGCAGGAGTCCACTGGGGTGGGGTGGTTCCACTGGGGTGGGGGT
GGTCCCCAACCAGCCAGGAGGGAGGATCTCCAGATGGAAGCAGAAGAGAGGGTGAGGCTGGGTCTCTAGGGCCA
TGATGTATGAAGTCGGGTGCCAGTGTCTGAGGACATGCATGCTTGGGGAAATCCCACTACACTGAACAA
CATGCAGGTCCCAAGGAGTATGAAGTTAAGTTTTCAATGGTTTTAGTGGTGTCTTTTTTATCCTTGAAGTCCAA
GAACAGTGTCAATTGGCACACCCACCCCTGGTAGATAAGGTGCTACTGCTCTTGGCTCTGGGGACCATGCCTCCAT
TTGCCCCAGGACTGGGGATCCGCTGCTGCATTGAAGTCCCTGGGCAGTCAGGCACAGCCCTGCCCTCATGGAAA
GGGACATGAGGTGCAAACCATCAACAGTAACAAGGGAGCTCAAATCTCCCATGTGGGCTCCAGGAGACTGATG
CAGATCTTACCAGCCACGGGTCTGGGGATCCTTCTGAGGCTCAGTTTCTCATGTGTAAAGGTATGGAAGACAA
TGGCCCTGCCCTCAGGCTTGTGACAGTGCCATGAAGTGGTGTCTGTACACAGGCAGGCAACAAGCCAGCGCTGA
GGCAGGAGTCTGGCAGATGCTGGTGCCACTCCGAGCACACACTGGGCCTTGCTTTAAGGGGCTGGCTTTAC
TCTCTCCCTTTGATCTGAGCAGCCCCAGAAGGTAAGGGCCATTGATGCCACAGTCCCTTCCCTATGGGGAGAGAC
ATCTCACAGTCTTATCCTGGAGCCTTTCTGAATCCTGTCTCCCTCTCTTCTCTCTGGGTGGTAGGGTCAGGAAGA
GGGTGTTTCTCCACTTCAACCAGCACAGGGCAAGGAAGGGAGTGGCCCCCACCAGGAGGAAGGAAAGGCCCTTA
CGTGGTGGGTATGGTGTGCACAGTCTTAGAACTAGGCTGGCCTCAGTGTGTTGAGTCAACAAGCTGCACCAGGC
TCTGTGCCAGGGGACACACATTGAAAGGGGCATGGTTTTCTCTACTCCATGGGAAGAGGCTAGGGTCTGAAGAGA
TGGAATGACTTACCAGCATAACCAGACTTGGAATGAGGTCTGGGCAGCTCCAAATCCCGTGTGTGAGCCATAT
TCCAGCTGGGGCTGGGGTGGCTCCAGAGTGGAGCTGAGGGAGGATGGGAATTGTGCCTCCCTGTGACTCCTGC
CCCGGGGCCCCGCTACAGTGGGTGCTGTCTTCTGTGCATAAGTTCAAGTCCAGTGTGTCTGCCTGTCACTCCTG
CCCAGGGCCCCAGCTGCAGTGGGTGCTGTCTTCCATGCTTAAGTTCAAGTCCAGTGTGTCTGCCTGTGACTCCTG
CCTGGGGGCCAGCTGTAGTGGGTGCTGTTCTTCCATGCATAAGTTGCCATACTAACTGGGGTGTAGATATGTA
CCTCTTTTCTTAGGCTCAGAGTCCCCAAAGGGGCCATTGGCCACATTGTCTCTACTGAGAAGACCATTCTGGC
TGTAGAGAGGAACAAAGTGTGTGCTCCTCTCTGGAACAGGACCTTCAGCTGGGGCTTTGATGACTTCAGCTG
CTGCTTGGGGAGCTACGGCTCCGACAAGGTCTGATGACATTCGAGAACCTGGCTGCCTGGGGCCGCTGTCTGTG
CGCCGTGTGCCATCCCCAACACGATTGTACCTCTGGGACCAGCACTGTGGTGTGTGTGGGAGCTCAGCAT
GACCAAGGCCGCCGAGGGGCTTGCGCCTCCGGCAGGCCTTGTATGGACACACAGGCTGTACGTGCTGGC

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FIGURE 2376B

AGCGTCAGTCACCTTCAGCCTCCTGGTGAGCGGCTCCCAGGACTGCACCTGTATCCTGTGGGATCTGGACCACCT
CACCCACGTGACCCGCCTGCCCCGCCATCGGGAAGGCATCTCAGCCATCACCATCAGTGACGTCTCAGGCACCAT
TGCTCCTGTGCGGGAGCACACTTGTCCCTGTGGAATGTCAATGGACAGCCCTGGCCAGCATCACCACAGCCTG
GGGCCCAGAAGGAGCCATAACCTGCTGCTGCCTGATGGAGGGCCAGCATGGGACACAAGCCAGATCATCATCAC
CGGGAGTCAAGACGGCATGGTCCGGGTTTGAAGACTGAGGATGTGAAGATGTCTGTTCCTGGACGGCCAGCAGG
AGAGGAGCCCCGGCTCAGCCTCCAAGCCCAAGAGGCCACAAGTGGGAGAAGAACCTGGCCTTGAGTCGAGAGCT
GGACGTTAGCATTGCTTTGACAGGGAAGCCCAGCAAACCAGCCCCGCAGTGACTGCTCTGGCCGTGTCCAGAAA
CCACACCAAACCTCCTGGTTGGTGATGAGAGGGGAGAATATTCTGCTGGTCTGCAGATGGGTAGGAAGAGAGAGG
CAGCAGAGGCTCTGGCACAACAGTGCCAGGCTGAGGGTGGCAGAGGTGACTGGGGCCTGAGCTCTGCCTACAGAA
GAAACCCCCAGGGCCTCCTTCCCCACAGTTCTCAAGGAAGGGCCTCTGGCAATCACAGCTCTGCAGCCCAACCCT
CTCCATGGCCGATGGGACTTCTATGAAAAGGATGAGCACACACACTCGGAGGGCTGAGCAGCACGCTGGAAACTG
TGACTTGGTGATGCCAGCTGCACACGAAATTACACATGACTCACCTTATTAAGGGCTATTGCACTGAAAAAAA
AAAAGATGGGTCGCTTACTGGAAATTATTGTATTGTCTTTATTTTATTAAAGCAACTATGTTTTAAATGC

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FIGURE 2377

CTGTGACAGACGGCACTCACACTGATTTCTATGTCCTACCAGACACTGCCCTGGCGACACACAAACCTCAAGTAA
TGAGGGTCCAGATAAGATCATTAGACAATAGGCTTCCCCAGATTACTACCAACAGGGGTGCCCCAGCCTTGAAGC
GCCTTCACACTGGACACATGGGCTTCCTGATTACCAGCAAGTCTCTGAAGGCAGAAGATCAGGACAGTCCCCACA
GGCTTCTGAAGTATAAAGTGACCAGAGGACCAGAGCATGGCTTCATTATCAAAACTGGCCTTGGAAACCAGAGCA
CTCGAGTGTTTACACAAGCTGACATTGATGAGATGAAGATATCCTATGTCTTGAATGAGGGCAGCAACGCATCAA
AGGACATCTTCTATTTCTCTGTTGAAGACAATGGAGGAAATAAACTAACAAATCAGCCTTTCCATCTAAACTGGG
CTTGGATTGTTTGGAGAAAGAGTACTACATTGTGGATGAAGATTCCACATTCTTAGAAGTGACCCTTACACGCA
GAGGATACCTTGGAGAAACATCATTATCAGCATTGGTACC¹AAAGATGAAACTGCAAAAAAAGACAAAGATTTC
AATGGAAGACCAATAAACAGATCCAGTTCAAT

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FIGURE 2378

VTDGHTDFYVLPDTALATHKPQVMRVQIRSLDNRLPQITTNRGAPALKRLHTGHMGFLITSKSLKAEDQDSPHR
LLKYKVTRGPEHGFIIKTGLGNQSTRVFTQADIDEMKISYVLNEGSNASKDIFYFSVEDNGGNKLTNQPFHLNWA
WICLEKEYYIVDEDSTFLEVILTRGYLGGETSFISIGTKDETAKKDKDFKWKTNKQIQF

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FIGURE 2379

GTGCCAACCAAACCTGAACAGAGGAGGTGGCGGTGGTGGCCCTCGCCTGTGGCCCCGTGCTGCTTGCACTCGA
ACTCGTCGCCATGGAGGAGCTCCAGGAGCCTCTGAGAGGACAGCTCCGGCTCTGCTTCACGCAAGCTGCCCGGAC
TAGCCTCTTACTGCTCAGGCTCAACGACGCTGCCCTGCGGGCGCTGCAAGAGTGTGAGCGGCAACAGGTACGGCC
GGTGATTGCTTTCCAAGGCCACCGAGGGTATCTGAGACTCCAGGCCCTGGTTGGTCCTGCCTCTTCTCCTTCAT
AGTGTCCCAAGTGTGTGTCAGGAGGGCGCTGGTGGTAGCTTGGACCTTGTGTGCCAACGCTTCCTCAGGTCTGGGCC
TAACAGCCTCCACTGCCTGGGCTCACTCAGGAGCGCCTCATTATTTGGGCAGCCATGGATTCTATCCCAGCCCC
ATCATCAGTTCAGGGACACAACCTGACTGAAGATGCCAGACATCCTGAGAGTTGGCAGAACACAGGAGGCTATTCT
TGAAGGAGATGCAGTATCACAGCCACAGATGGCACTAGAGGAGGTGTGAGTGTGAGATCCACTGGCAAGCAACCA
AGGACAGTCACTCCCAGGATCCTCAAGGGAGCACATGGCACAGTGGGAAGTGAGAAGCCAGACCCATGTTCCAAA
CAGAGAACCTGTTTCAGGCACTGCCTTCTCTGCCAGCCGGAACGCTGGACAAGAAACGTTTCAGTGCCTGTAGC
CACTGTAGAACTGGAAGAAAAGAGGTTTCAAGAACTCTGCCTTTAGTGCCAAGCCCCCTACAAGGCCTGACCAATCA
GGATTTACAAGAGGGAGAAGATTGGGAGCAAGAAGATGAGGACATGGACCCAGATTAGAACACAGTTCTCAGT
TCAAGAAGATTCTGAATCCCCAAGTCTGAAGATATACCAGACTACCTCCTGCAATACAGGGCCATCCACAGTGC
AGAACAGCAACATGCCTATGAGCAGGACTTTGAGACAGATTATGCTGAATACCGCATCCTGCATGCCCCGTGTTGG
GACTGCAAGCCAAAGGTTTCATAGAGCTGGGAGCAGAGATTAAAAGAGTTCGGCGAGGAACTCCAGAATACAAGGT
CCTGGAAGACAAGATAATCCAGGAATATAAAAAGTTCAGGAAGCAGTACCCAAGTTACAGAGAAGAAAAGCGTCG
CTGTGAGTACCTTCACCAGAAATTGTCCACATTAAAGGTCTCATCCTGGAGTTTGAGGAAAAGAACAGGGGCAG
CTGAAGTTATCAAGGGAATTTTTGAGCCTCTGCTTAGTGAAACACAAAGGAACAAAGCAGCTATAAACTAAATAG
AATGCAACTATCTGCTTTTCTTATGCTGACCCTGGAGTCCATGGTGGCAAGTAGAGAGCTGCTCTAGGTTCTTG
AGGTTTGGTTTTTCATTATTAATTTTTAGGGTATGGGCACTGTGCAAGACTCCATAGCTGTGCCTAGGAGTCTAG
GAAAAGTGACAGAGGCTTGGCTTTTTTACCTTTAGTTCAGCCAAGTCATTTTCAAGTCCTGAGAAATGACATCAT
CTTCAGGATAAAAATAATGAGGACATTAGACAAACCAACTAAGTGAATTTTAGCCTGGTAGCCTCTCTAAGGAAA
CAGTAATAATAACTTCTGATAAGAGTTAAAAGAACTTGTAGCATACCTGGATATAATGGGAAAGGGCCTGGGTGT
TACCCATGTACTGAAAATGAACTTTTACCAACATGGCTAAAAAATTAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2380

MEELQEPLRGQLRLCFTQAARTSLLLLRLNDAALRALQECQRQQVRPVIAFQGHRYLRLPGPGWSCLEFSFIVSQ
CCQEGAGGSLDLVCQRFLRSGPNSLHCLGSLRERLIWAAMDSIPAPSSVQGHNLTEDARHPESWQNTGGYSEGD
AVSQPQMALEEVSVSDPLASNQGQSLPGSSREHMAQWEVRSQTHVPNREPQALPSSASRKRLDKKRSVPVATVE
LEEKRFRTLPPLVPSPLQGLTNQDLQEGEDWEQEDEDMDPRLEHSSSVQEDSESPSPEDIPDYLLQYRAIHSAEQQ
HAYEQDFETDYAEYRILHARVGTASQRFIELGAEIKRVRRGTPEYKVLEDKIIQEYKKFRKQYPSYREEKRRCEY
LHQKLSHIKGLILEFEEKNRGS

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FIGURE 2381

ATGGAAGCCCCAGCTCAGCTTCTCTTCCTCCTGCTACTCTGGCTCCCAGATACCACGGAGAAATTGTGTTGACA
CAGTCTCCAGCCACCCTGTCTTTGTCTCCAGGGGAAAGAGCCACCCTCTCCTGCAGGGCCAGTCAGAGTGTGGC
AGCTACTTAGCCTGGTACCAACAGAAACCTGGCCAGGCTCCCAGGCCCCCTCATCTATGATGCATCCAACAGGGCC
ACTGGCATCCCAGCCAGGTTTCAGTGGCAGTGGGTCTGGGACAGACTTCACTCTCACCATCAGCAGCCTAGAGCCT
GAAGATTTTGCAGTTTATTACTGTCAACACCGTGACAATTGGCCTCCGGGGGCCACTTTTCGGCGGAGGGACCAAG
GTGGAGATCAAACATACCACCGGAGAAATTGTGTTGACACAGTCTCCAGCCACCCTGTCTTTGTCTCCAGGGGAA
AGAGCCACCCTCTCCTGCAGGGCCAGTCAGAGTGTGGCAGTACTTAGCCTGGTACCAACAGAAACCTGGCCAG
GCTCCCAGGCCCCCTCATCTATGATGCATCCAACAGGGCCACTGGCATCCCAGCCAGGTTTCAGTGGCAGTGGGTCT
GGGACAGACTTCACTCTCACCATCAGCAGCCTAGAGCCTGAAGATTTTGCAGTTTATTACTGTCAACACCGTGAC
AATTGGCCTCCGGGGGCCACTTTTCGGCGGAGGGACCAAGGTGGAGATCAAACGAAGTGTGGCTGCACCATCTGTC
TTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAAGTGCCTCTGTTGTGTGCCTGCTGAATAACTTCTAT
CCCAGAGAGGCCAAAGTACAGTGGAAAGGTGGATAACGCCCTCCAATCGGGTAAGTCCCAGGAGAGTGTACAGAG
CAGGACAGCAAGGACAGCACCTACAGCCTCAGCAGCACCTGACGCTGAGCAAAGCAGACTACGAGAAACACAAA
GTCTACGCCTGCGAAGTCACCCATCAGGGCCTGAGCTCGCCCGTCACAAAGAGCTTCAACAGGGGAGAGTGTAG
AGGGAGAAGTGCCCCACCTGCTCCTCAGTTCCAGCCTGACCCCTCCCATCCTTTGGCCTCTGACCCTTTTTCC
ACAGGGGACCTACCCCTATTGCGGTCTCCAGCTCATCTTTACCTCACCCCTCCTCCTCTTGGCTTTAATT
ATGCTAATGTTGGAGGAGAATGAATAAATAAAGTGAATCTTTGC

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FIGURE 2382

AAATAAAGATGGTTCTTAACTTTTAAATTAAGATTTTTAAATTAAGATGAATCTTGATTTTTAAATTAGTATGGT
TTTAAGATAGTTTTACAGATAGATTAGATAATCTATCTAGAGATAGACAGGGAGAGATATCTATCAATACATATC
TCTATCTAGATATAGATAGATGGTTTTCTATATAGNN
NN
CATGTATATATGTNN
CTACATGTATTACATAGATAGGGTAATTACTGATAAATCCTTTGGTCTTCTTTGTAAATCTCTGGGCTAAAGACC
CCTCCAGTATTATACGTGTTCTGGTCTAGATTGCTCACTCACCAGTTCTCCTCACTATCTAGAGAAGATCCACTT
AGCAGGCCTCCCTTAAAGAAGGGCACCTTAACTGGACTCACTCCTCCCATAGTAGACTGCACAGTACACAAGCA
GAAGAGGAGAGCTCAATAATAAAGTCACCATAAAGGATAATTTTTAAATGAATAAAGACATCAGAAAATCCAGTA
TTGGCTAGCACATATGGCTATCAGCAAGCTCACCTACAAAAAATAGTGAGAAAACAGTTCGAATATTGGCCGT
TTGGGGCACATATTCTACAAAAGGAAAAGTTTTGAAATGTATATATATTTAATTTAACTCTTTAAAATATTGT

A

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FIGURE 2383

MVFYXXXXXXXXXXXXXXXXXXXXXXXXXISTSVFLHVYRYVYIYMYICXXXXXXXXXICIIYAYTCLSFIIYMYIID
RVITDKSFGLLCKSLG

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FIGURE 2384

TTTACATTATGAATAACTTTTATTGTTTATACAAGTTTGAATTCATCTATTTTTATGTAAATAGCTCGAT
CTTCAAAAATATCCTTCAGCTCTGACAACCTCTTCACATAACTTTCCTGTAAGATCTTTTAAATATCCAAACCTG
TAAAAGTCCACATTCAGTTGTTCTTTGTTCCCTTAGTTTGCTTCAACAACATCAATGCAAGGTTAATAGAAGCTAT
TTACTTACCATATGGTAGGTGGCTCAGAACCTTCTATTCTAAGTAATCATATTTCTCTCCATTGAAAATCAG
TAAATATGAGTGAAATTGTGTCCCCAGGCTCTGCTACAATGGTCCAAGTGCAATCAGCATTGTTATGGTACTCAT
TAGGAAACTAGGGCTGGATATGATGCCACTGGATCCTCTCATTGTTCCCTCCACAAGCATCTTCAGCTCTACAGA
TAGGAACAGGAAAATCCCACGAAGCTGTATTAAGTGAATTGGCCATGCAGGTGAGCTGAGGGTGGCCATCAAGGA
TGTATCCAGTTACACAGCTGTAGCGGATCTTGTC

AATGAATCCCTGCGGTTGGCTGGGGGCAGTGGGTCCCACACTGCTAACTTCCCTAAATGGGCAGCTTCACTTTT
AGAACCCCGGGTTCCTTCCCTGGCAGGCCCAGGTGGCCACATCTGTGTGCGGTGGGCCCTCACCTTGGATCTCCAG
GCCTGACACTGCCAGCTGGATGGAACCATGGCCCCAGCCTTCTGCTGCTGCTGCTGCTGTGGCCACAGGGTTG
CGTCTCAGGCCCCCTCTGCTGACAGTGTATACACAAAAGTGAGGCTCCTTGAAGGGGAGACTCTGTCTGTGCAGTG
CTCCTATAAGGGCTACAAAAACCGTGTGGAGGGCAAGGTTTGGTGCAAAATCAAGAAGAAGAAGTGTGAGCCTGG
CTTTGCCCCGAGTCTGGGTGAAAGGGCCCCGCTACTTGTCTGACGACGATGCCAGGCCAAGGTGGTCAACATCAC
CATGGTGGCCCTCAAGCTCCAGGACTCAGGCCGATACTGGTGCAATGCGCAACACCTCTGGGATCCTGTACCCCTT
GATGGGCTTCCAGCTGGATGTGTCTCCAGCTCCCCAAACTGAGAGGAACATTCCCTTTCACACATCTGGACAACAT
CCTCAAGGGTGGAACTGTCACTGACAACTGGCCAAAGCCCTACCTCAGGCCCTGATGCCCTTTTACCCTGGTGTGAT
GGTGTTACCCCAGGACTCATCACCTTGCCTAGGCTTCTAGCCTCCACCAGACCTGCCTCCAAGACAGGCTACAG
CTTCACTGCTACCAGCACACCAGCCAGGGACCCAGGAGGACCATGGGGTCCCAGACAGTGACCGCGTCTCCAG
CAATGCCAGGGACTCCTCTGCTGGCCAGAATCCATCTCCACTAAGTCTGGGGACCTCAGCACCAGATCGCCAC
CACAGGGCTCTGCCTACCAGCAGATCTCTCCTCAACAGACTACCTCCATGCCCTCCATCAGGCACCAGGATGT
TTACTCCACTGTGCTTGGGTGGTGCTGACCCCTCCTGGTGCTGATGCTGATCATGGTCTATGGGTTTTGAAGAA
GAGACACATGGCAAGCTACAGCATGTGACGCGATCCTTCTACACGTGACCCACCTGGAAGACCAGAGCCCTATGT
GGAAGTCTACTTGATCTGAGGGCCACTTAAGCATGGGTGGGGAGCTTCTCCAGAGTGCCCCAGGGGTTAGAG
GAGGGGTGAAGATTGGGGCCAGTATCGATCTTATGAAGCTGGAGGACTTGTGCAGTGCTGGACTCACCCAGGACT
TCCCAAACCCAGAGGCTGCCATCCTAAGCAGCCCCACAGCCCAGTGTTCTCCTTGGGGGCAGGAACCTGGGGAGG
GGCCAGAGCAAAAGGGCATCAGGGAGAAAGTCCCAGGAAATGTGACCAGTGCGTCTCTGCTCGGAGCTGCAGACC
CCAGGGTCTCTTGGTGGAGCAGGGGAACCTTGAGAGTGTGTTTACAGAGAACCTCAGCTCCCGTCTGCCTCAGA
AACCCCTACTGGGCTGAGCTGCCCTCCCCACCAGGGCCGCTGTGTCTCTGCTTCCCTCCGTCTGCTTCAGCTTC
CCCTAAGGTTAGGGAAGAAAGAAATCGGGCTCACGAATGCCAGAGGCAGTGATGTCCCATCTGGAGGAGAGGAAA
CAGTGACTAAAAGCTGGGGACCCACAGAGGGGTTGGCAGCTTCTCTTGTGCGGACAGGTGTCTTTGCTGGGCCCT
CTGGATGGCCCTGCCCTGACTGGGGCTGCTCCTCCCTCCTGTCTGGGACCCCGCAGAGCCACGCTCTCACTGC
TGCCTCCTGTGCGCCGCTGCCTCCTTAGAAAGCTGTGACCAGGCAGCTAAGAGCCTCTGGGCTGCAGGGTCAGCC
TCTCCCAAGACTGAAGTGACAGAGGCTGGACTTGGGGCTCTCTCCCCAGCTTCTACACCTGGGCTCCAAGTCTGA
GTTCCACAGGGGACCCAGCAGCCTCCAGGAAGTCCATACCCTGGGGTGGCTGAGACCTTGGCTCTGTATGGAGG
CTGCTCACCCACAGACACTGGTGGGGAGACCATGGCTCAGAGGAAGGGTGGAGCAACCTACTCTACCCCTCA
GGATAGAGAGAGAAGACACACTTGGGACACAGTGAAGACAGTAACCTGGAACAGACCACGGCCTGGAGGACTGGC
CCAGGCAGGGGGACAGGGAAAATGGAGCCCAAGTAGCCTCTGGCCAGGGACCCAATGTCCCGAGGAATCTGCCTC
CCACCCACTGACTCAGGGCTCAGACTCAGCCTCTATTGTCCAGAGCACTGGCTTGGCGTCCAGCAATGAAGGCTG
GAGAATGCAGCCTGGATTCCCTAC
ACAGGTGTCTACTGACCTGGAGTGACTGGAATAGCACCTGGGGATAAATGTGACAACTGTGCATTGAACCCTGGG
TCAGGGACGTTCCAATGGCCAAGAGAGTGACACAGCCAGGACCCTGGTGGACAGCCAGAGGGGCCACTTCAGGAT
GGATGTGGGGAGAGTGGAAGAGGCAGGGAGTAATCTGGGGGACAGCAGGGAGGAGGCACTTCTTCCCTATGTCC
AGGAGAGGGCAATAGAGGGAAGACTGAGGCTGAAGAATTGACGGCTCTGGACCCAGGACAGACAGACAGACAGAC
AGACAGACACGCACACACACCCATCTCTGTCTAGCAAGCAGCCTCCTAAGATAGCTGTCTCCCTATCATGACGG
TGTAGCCACCATCTGTGTATACTAGGAGAGAAGTAAACCCACCTGGGGGAAAATAGCTCCCCAAGAGCTGGCA
CCAGTACCCTGATGGCCCTGCTTCCCTCTGAGTGAGATGCCAGGAGGAGGAGCCCTAGGGAAGAAGTCAGGGAC
AGGGACAGGATACCACTCTGTCACTGTGTGACCCTCAGCAAGTCACTAACCCTTGGCCTCATTTTTCTGTCTT
GTGAAAGAGGACAATAATTCCTACTTCTCAAGATTGTTTTCAAGATAAAGTAACATTAGCATTGTACAATG

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FIGURE 2386

MNPCGWLGA VGPTLPNFPKWAASLLEPRVLPWQAQVAHPVSGGPSFWISRPDTAQLDGTMAPAFLLLLLLWPQGC
VSGPSADSVYTKVRLLEGETLSVQCSYKGYKNRVEGKVWCKIKKKKCEPGFARVWVKGPYLLQDDAQAKVVNIT
MVALKLQDSGRYWC MRNTSGILYPLMGFQLDVSPAPQTERNIPFTHLDNILEKGGTVTTGQAPTSGPDAPFTTGVM
VFTFGLITLPRLLASTRPASKTGYSFTATSTTSQGP RRTMGSQTVTASPSNARDSSAGPESISTKSGDLSTRSPT
TGLCLTSRSLNRLPSMPSIRHQDVYSTVLGVVLTLLVLMLIMVYGFWKKRHMASYSMCSDPSTRDPPGRPEPYV
EVYLI

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FIGURE 2387

CGACTCTGAGGTGCATTCTTTTTTTGATGAGAGGCATCTCTAGGTACCATCCCTGACCTGGTCTCATGCTGCCG
AGGCTGTTGCTGTGATCTGTGCTCCACTCTGTGAACCTGCCGAGCTGTTTTTGATAGCCAGCCCCTCCCATCCC
ACAGAGGGGAGCCCAGTGACCCTGACGTGTAAGATGCCCTTTCTACAGAGTTTACAGATGCCCAGTTCCAGTTCTGC
TTTTTCAGAGACACCCGGGCCTTGGGCCAGGCTGGAGCAGCTCCCCCAAGCTCCAGATCGCTGCCATGTGGAAA
GAAGACACAGGGTCATACTGGTGCAGGCACAGACAATGGCGTCCAAAGTCTTGAGGAGCAGGAGATCCCAGATA
AATGTGCACAGGGTCCCTGTGCTGATGTGAGCTTGGAGACTCAGCCCCCAGGAGGACAGGTGATGGAGGGAGAC
AGGCTGGTCTCATCTGCTCAGTTGCTATGGGCACAGGAGACATCACCTTCCTTTGGTACAAAGGGGCTGTAGGT
TTAAACCTTCAGTCAAAGACCCAGCGTTCACTGACAGCAGAGTATGAGATTCTTCAGTGAGGGAGAGTGATGCT
GAGCAATATTACTGTGTAGCTGAAAATGGCTATGGTCCCAGCCCCAGTGGGCTGGTGAGCATCACTGTCAGAATC
CCGGTGTCTCGCCCCAATCCTCATGCTCAGGGCTCCCAGGGCCCCAGGCTGCAGTGGAGGATGTGCTGGAGCTTCAC
TGTGAGGCCCCTGAGAGGCTCTCCTCCGATCCTGTACTGGTTTTATCACGAGGATATCACCTGGGGAGCAGGTGCG
GCCCCCTCTGGAGGAGGAGCCTCCTTCAACCTTTCCCTGACTGAAGAACATTCTGGAACTACTCCTGTGAGGCC
AACAAATGGCCTGGGGGCCAGCGCAGTGAGCGGTGACACTCAACTTCACAGTGCCTACTGGGGCCAGAAGCAAT
CATCTTACCTCAGGAGTCATTGAGGGGCTGCTCAGCACCTTGGTCCAGCCACCGTGGCCTTATTATTTGCTAC
GGCCTCAAAGAAAAATAGGAAGACGTTTCCAGCCAGGGATCCACTCAGGAGCCTTCCCAGCCCTCTACCCCAAGAG
TTCACCTACCTCAACTCACCTACCCAGGGCAGCTACAGCCTATATATGAAAATGTGAATGTTGTAAGTGGGGAT
GAGGTTTATTCACTGGCGTACTATAACCAGCCGGAGCAGGAATCAGTAGCAGCAGAAACCCTGGGGACACATATG
GAGGACAAGGTTTCTTAGACATCTATTCCAGGCTGAGGAAAGCAAACATTACAGATGTGGACTATGAAGATGCT
ATGTAAGGTATGGAAGATTCTGCTCTTTGAAAACCATCCATGACCCCAAGCCTCAGGCCTGATATGTTCTTCAG
AGATCCTGGGGCATTAGCTTTCCAGTATACCTCTTCTGGATGCCATTCTCCATGGCACTATTCTTCATCTACTG
TGAAGTGAAGTTGGCGCAGCCCTGAAGAACTACCTAGGAGAACTAATAGACACAGGAGTGACAGGGACTTTGTT
ATCAGAACCAGATTCTGCGGCTCCTTTGAAAACAGGTCAATTTGTGCTCTTCTGTTTACAAGAGGAAACAAGA
TGGAATAAAAGAAATTGGGATCTTGGGTTGGAGGGACAGTGAAGCTTAGAGCACATGAAGTCAAGTTAGTGACT
CTGCAGGACTTCACAGAGAGAGCTGTGCCCATCATTAGTCCAAGTGCTTTCTCTGCCCAGACAGCACAGAACTC
CAGCCCCGCTACTTACATGGATCATCGAGTTTCCACCTAAAATATGATTCTATTTATTTTGGAGTCACTGTTACCA
AATTAGAATAAAACAAAGTTACATAAAAAGTTATTGTGACTCCACTTAATTTTAGTGACGTATTTTTGTATATA
TAGGCCAACCTATACCACATCCAAAATTATGTATCTATTACAGCCCCTAGAAGCTTTATAAATACAGTGTGTCTT
CTTTTATTCACAAAATTTTGAATCGTGGTAATATGGTTTGAACCTGTATCTTAATTATTTTTTTTTTAAATT
GAGACAGGGTCTCACTCTGTCACTCAATCTGGAATGCAGTGGCACAATCTGCCTCACTGCAACGCCTGCCTCTC
AGGCTCAAGCAAACCTCTCACCTCAGCCTGCTGAGTAGCTGGGACTACAGGCACATGCCACCAAACCTTGGCCATT
TTTTGTCTTACGTAGAGACAAGATTTACCGTTTTGCCAGGCTGGTCTCAAACCTCCTGGGCTCAAGCAATGTAT
TGAATTTT

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FIGURE 2388

MLPRLLLLICAPLCEPAELFLIASPSHPTGSPVTLTCKMPFLQSSDAQFQFCFFRDTRALGPGWSSSPKLQIAA
MWKEDTGSYWCEAQTMAKVLRSRRSQINVHRVPVADVSLQPPGGQVMEGDRLVLICSVAMGTGDIIFLWYKG
AVGLNLQSKTQORSLTAEYEIPSVRESDAEQYYCVAENGYGPSPSGLVSITVRIPVSRPILMLRAPRAQAAVEDVL
ELHCEALRGSPPILYWFIYHEDITLGSRSAPSGGGASFNLSTEEHSGNYSCEANGLGAQRSEAVTLNFTVPTGA
RSNHLTSGVIEGLLSTLGPATVALLFCYGLKRKIGRRSARDPLRSLPSPLPQEFTYLNSTPGQLQPIYENVNVV
SGDEVYSLAYYNQPEQESVAAETLGTHMEDKVSLDIYSRLRKANITDVDYEDAM

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FIGURE 2389

GCCGGAGTTCGTGGGGCTGTGGCTGGGCCTGGCCAAGGCGGGCATGGAGGCCGCGCTGCTCAACGTGAACCTGCG
GCGCGAGCCCCTGGCCTTCTGCCTGGGCACCTCGGGCGCTAAGGCCCTGATCTTTGGAGGAGAAATGGTGGCGGC
GGTGGCCGAAGTGAGCGGGCATCTGGGAAAAGTTTGATCAAGTTCTGCTCTGGAGACTTGGGGCCGAGGGCAT
CTTGCCGGACACCCACCTCCTGGACCCGCTGCTGAAGGAGGCCTCTACTGCCCCCTTGGCACAGATCCCCAGCAA
GGGCATGGACGATCGTCTTTTCTACATCTACACGTCGGGGACCACCGGGCTGCCAAGGCTGCCATTGTCTGTGCA
CAGCAGGTACTACCGCATGGCAGCCTTCGGCCACCACGCTACCGCATGCAGGCGGCTGACGTGCTCTATGACTG
CCTGCCCCCTGTACCACTCGGCAGGAAACATCATCGGCGTGGGGCAGTGTCTCATCTATGGGCTGACAGTCGTCT
CCGCAAGAAATTCTCGGCCAGCCGCTTCTGGGACGACTGCATCAAGTACAACGTACCTGGCAGGCCCCATCCTG
GACTGAGAAACTGGAACCTCAGAGGAACCCGTGCCTCTCTGCTGCCTTGGTGCCCCCTGTGTCTGCCTCCTCTCCC
TGCTTTTCAGCCTCTGTCTCCTTCCATCCCTGTCCCTGTCTGGCCCTTAACTCTTCCCTCTTTTCTTTTCTTTCT
TTCTTTCTTTTTTTTTTAAGATAGAGTCTCACTCTGCTGCCCCGGGCTAGAGTGCAGTGGTGGGATCTCGGCTCAC
TGCAACCTCTGCCTCTCGGGGTTCAGTGATCCTCCCACCTCAGCCTCCTGAGTAGCTGGGATTACAGGCACCCG
CCACCACGTCCAGCTAAATTTTATATTTTAGTAGAGACGGGGTTTACCATGTTGGTCAGGCTGGTCTTGAAC
CCTGACCTCAGGTGATCCGCTGGCCTCGGCCTCCCAGAGTGTGGGATTATAGGCGTGAGCCTCTGGCCCCGGCCT
TTCTTTTCTCTCTCCTCTCCTGCCCAGAGTGAACACACGTGCTCCTGGGAGCTGCATCTTGTGTAGGGTCCAGC
TGCTTTTGGGGACTGCAGGAATCATCTCCCCTGGGCCCTGGACTCGGACTGGGGCCTCCCCACCTCCCTCTCGGC
TGTGCCTTACGGAGCCCCAATCCAGGCCTCCTGTGGCTGTTGGGTTCAGATGCTGCAGCTCCATGTGACTTCCA
AGCAGGCCCTCCGCCCTCCCTGCTGAATGGAGGAGCCGGGGTCCCCCAGGCCAACTGGAAATCTCCCAGGCTA
GGCCAATTGCCTTTTGCACITCCCCGTTCTGTACATTTCCCCAGCCCCACCTTCCCCCTCCTGATGCCCTGAAA
GCTTCCGGAATTGACTGTGACCACTTGGATGTACCACTGTACGCCCTGCCTTGATGTCCCCATTTAGCCATCT
CCATGGAGCTCCTGCTGGAGGGCCCTGAACCTGCACTGCGTGGCTGCCAGCCAGCTGCCTCCTGTCTCTGGGAG
GAGGCCTCCTGGGTGTCTCATCTGGTGTGTCTACTGGAGGGTCCCACAGGAGAGGCAGCAGAGGGGTGAGGGGA
GGTCTCCTGCGGGGGTTGGCCTCTCAAGCCTCAGGGGTCTAGCCTGTTGAATATACCCACCTGGTGGTGGCC
CCTCCGATGTCCCCACTGATGGCTCTGACACCGTGTGGTGGCGATGTCCCAGAAAATCCCACCAGGACGGCCCA
GACATCCCTACTGGCTTCGCTGGTGGCTCATCTCGAATCCACGCCAGCCTTTCTGGGGCCGGCCACCCAGGCC
GCCTGTCCGTCTGTCTCCTCCCTCCAGCAGCACCCCTGGCCCCCTGGAGTGGTGGGGCCATGGCAAGAGACACCGTG
GCGTCTCATGTGAACCTTCTGGGCACTGTGGTTTTATTTCTTAATTGATTTAAGAAATAAACCTGAAGACCGTC
AAAAAAAAAAAAAA

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FIGURE 2390

GCCGGAACCAATGTGCCCTGGGCCACTGGGCCGTGAGCAGCCACCGACTGGGGGCAACTTGGCACTTAGAACCGC
AGCAGGGACGTCGGTTTGCTATCGGGACTCGGCGAGGACGATGGAAATCCTGTATGAATGTGGAAGCCATTAGCA
GAGTAATTGCTGTCTGTTACCATGACAACCAGCCGCTGCAGTCACCTGCCGAAGTCCTGCCAGACTGCACCAGC
TCAGCTGCACCCGTGGTGAAGACGGTGGAGGATTGTGGCAGCCTAGTGAATGGGCAGCCGAGTATGTCATGCAA
GTTTCAGCCAAGGACGGGCAGCTGCTGTCAACAGTAGTGCAGACTCTTGCCACCCAGAGCCCCCTCAATGACCGG
CCGATGTGCAGGATCTGCCACGAGGGCAGCAGCCAAGAGGACTTGCTCTCTCCATGTGAATGTACAGGGACCTTG
GGGACAATTTCATCGGAGCTGCCTGGAGCACTGGCTGTCTATCTCAAACACCAGCTACTGTGAACCTGCCACTTC
AGGTTTGCACTCGAGCGCAAACCCAGGCCGTTAGTGGAGTGGCTGAGAAACCCTGGCCCCAGCATGAGAAGCGG
ACTCTGTTTGGCGACATGGTGTGCTTCTTGTATAACTCCCTGGCCACCATCTCGGGCTGGCTGTGCCTGCGG
GGCGCCGTGGACCACCTGCACTTTAGTAGTCGGCTGGAAGCCGTCGGACTGATTGCACTCACTGTGCACTCTTC
ACTATTTACCTCTTTTGGACACTAGTGTCAATTTAGGTACCCTGTGATTGTACAACGAGTGGCGTCGGACCAAT
CAGAGGGTGATTCTCCTCATTCCAAAGTCTGTCAATGTACCTTCTAACCAGCCGTCCTTGCTGGGCCCTCCATTG
GTCAAGAGGAACCTCAAAGGAGACAGTTGTTTGGATGTTTGTATGGTTGGTTGGTTGTTTGAATCATTGTTTGGGGT
TTGGAAGTGTCTGCACTGGGGTCATGCACTGAGCGACCCCCAAGCCCTTCTTAAGCCTGTGGGTCTAAGAACAT
CCAGAGCATATTAGCACATCACTCCAAGCAACAACCTCCGCCAGAAGAAAGCAAATGCTGTTTTACTTCAAATGA
TGGATGCTGCAATCATATGATATTTGCTAAGCTGCCAAACATGTTTATTTAGCAGATACTGTATGGAATTTCTG
AACACCTCTTTAACGTATGAGGAAGGTTGTCCTGCTACGGATGCAATTCAATTCCTTTTTTTATTACTATTTT
AAACACACACATATATATATATATATATATTAACCTAGATGATAATCAAAATCAAAAAGTCAACGTAAAAACTG
GTTTCTTGGTTTGGTTGGGTCTTATTTGAGTTAGTTTGTCTCAGTTTCTCGTATGGATTCTTTGGGGTACTTT
GGTAGCCTGAGTGGTCTTTTTTCATCTCTTTTCGCGTCCATTACTCAAGGAGACAGCATAACAGATGCAGAACAAAGT
CATATTTGAAGAATGTTTTGTACTAACTTCATTTAATTATTAGTTTAAAGGGAAAAAGGGCGTGAGCTCAC
ACAGTGAGCTGTTTATTTAAATATCATTAAGGAGAAAAAAATATGGTGAGAAGCTCGCTCCTTTCACTTGTT
TGGTACTGACAGCTGATAGAAGCTATTTCTAATAATAAACATCCAGTGTGTGAAAGACAAAAAAAAAAAAAAAA
AAAA

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FIGURE 2391

MTTSRCSHLPEVLDPDCTSSAAPVVKTVEDCGSLVNGQPQYVMQVSAKDGQLLSTVVRTLATQSPFNDRPMCRICH
EGSSQEDLLSPCECTGTLGTIHRSCLEHWLSSSNTSYCELCHFRFAVERKPRPLVEWLRNPGPQHEKRTLFGDMV
CFLFITPLATISGWLCLRGAVDHLHFSSRLEAVGLIALTVALFTIYLFWTLVSFYHCRLYNEWRTNQRVILLI
PKSVNVPSNQPSLLGLHSVKRNSKETVV

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FIGURE 2392

TCGGCTCGGGCTTTCTGATTATGCAGAAGCTTAAATCTATGCCTCAGTGACCCATACAGCATTCCAGTTCCCTATC
ACCTACTGTCTTGTCCCTATACTTGCAGCAGTTGTCCAGGGTTATTCTTTGTCTGTATTAGAATTTTTTTTCAGG
TTGCTTAAGGAATCTTGCAGATACTTGTGACAAAGAATCATAAATGCTGTTGTTAACTGAATAATGAATTGAGT
CCCAAATGTTTCGTGCTAATTAATGCTTTTTTGTGTTGGAGATGAAATGAGAGTAATATCATCAAGCTGTGGATTAA
AGTTATCCTCAAAGCCCCATCATCTACAAAAAGAATAGGACAGGAAGCTGCCTTTGTGCAAGGTGCAAGACCATGTT
ACTTTTGAGCAGTGAGCTTGAGATGTCTGGGATACAAATTGGGTTCCCTATTAACTACTAATCATTCTTTTTTT
TCTTTACCTTCAGCCACTCACAAGTACCTTCTACTATTACATCCTGGAGCTGTCGTTTTATTGGTCTTTGA
TGTTTTCTCAGTTCAGTATGATATCAAAAGAAAGGACTTTGGCATTATGTTCTGCACCACCTTGATCTATTTCT
TGATTACCTTTTCATATGTCAACAATATGGCCGAGTAGGAACGCTGCTCTTTGTCTTCATGATTACAGTGTATG
CTCTTCGGAGGCTGCCAAATGGCAAATTATGCCAAGTTTCAGAAAATGTGTGATCTCCGTTTTGTTATGTTG
CCGTGGTTTTTATCACCACAGCTGGGTATATTTCTCTCTGGGTGTTAAATACCACATTATTTGAAAGCTGGG
AGATCGTTGGACCTTACCCTTCTGTTGGGTTTTTAACTACTGCTATTGCTAGTACAAGGGTTGAAGTCTCTCT
GGTCTTACTTGTGTTGAAATAGCTTGCAAAGCTGTTTCAAGAGGCAAGGTGTCCAAGGATGATCGAAGTGATA
TTGAGTCTCAGATGAGGAGGACTCAGAACCTCCGGGAAAGAATCCCCACACTGCGACAACCACCAATGGGA
CCAGTGGTACCAACGGGTATCTCCTGACTGGCTCCTGCTCCATGGATGATTAAATTACTCAAAACTACAAGTCCCA
AGCAAAGTGAAGTATTTGTTCTGGAAGTATTTAATAAGTTGCAAATGCAGTTCTTTTCATAATATCTCAGCACC
AGAAACAAAATTAAGATTATCAAAGCATTTTGAATAGTGCAGTCCCATGTGCTCTGTCTGTGAATGAAGAAGAA
TTACCATTCTCTCTTTGTAGGCAAGCTGTATGTAATTGACACAAGGGAACAGTATTTGCATTGTACTGTCTTAG
AATATTATTTATTTTTTTGTATTTGTAAATCTGTGGACAAAAGAGGGTTTCTCACTCCTTTTACTCACTGGGCT
CATGACAGTGAAGGAGATGCTCCATCTGCTTCTCCCCCTTTCTCTTGCTGTAGTCCAATGTGCTATGAGCATCAG
CTTACTTTGTCACTTAGAGCAAGCAAAACCCAGTGAAGAGTCTCGTTCAGCTCTAAATAGGTTTGCTTTCTTTT
AGTTACAGTGCCCATTTTGAAATTGCCTATACAGTCTTAGTGACCATTTAAACCGGACGAAGTGGTGTAAATT
TTCCTCTTCATGTTCAATTAGCAGTTCAAATTAAGAAGATGGTTATTGGAGAAGCTTTTTTGAATGGTTTTGTA
TTAAATTGCTTTGAAATAGATTTCAATTTCTGTGCACACAGCCAAGATTTCTTCAATGGGTGTGAGCTAGTTGAG
GGTTAACCTTGTAGGTTGCAGANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGATGAGGTCAGTGCTCTGATT
TTGAAGGAGGATATTCACTGAAGCTCATAGTTATAACAAGGAAATCACTGTTAAGAATGGGAATTTGTCTGTG
TTCTGGGAATAACATAAAGAGAGCAACTGATTTAGCCAGGTTTTGCCACTACCCTATAATTAGTGCAGTCTTAT
GTTATAAAAGAAAGAAGTTAACTATATTTGGGGACAAAAAATATTTCAAGAGTTGATAAAGATTACCTGTGCAG
TGCAGAGCACTTTAATGCAACCAGCTTTCAAGAAAAGCCCTATCTAGTACTTGATGTTGATGTTTTATTTTGC
TGAGCAAAATAAAGCCAATGGGAGAAGGACAA

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FIGURE 2393

MFSQFTDIKRKDFGIMFLHHLVSIFLITFSYVNNMARVGTLVLCLHDSADALLEAAKMANYAKFQKCDLLFVMF
AVVFITTRLGIFPLWVLNTTLFESWEIVGPYPSSWWVFNLLLLLVQGLNCFWSYLIVKIACKAVSRGKVSDDRSD
IESSSDEEDSEPPGKNPHTATTNGTSGTNGYLLTGSCSMDD

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FIGURE 2394

AATTTTATTAAAAATTTTTTAAAAGAATTTGGTTTTGGATTAAAAGGCATGCAAGCAGCATTAAATCCACTCAC
AGTTACAGTCTATCACCTGGGGCATTCACTACTTTTCAGAGTCAGATCACAGTTCAAAGACAGCTCTCACCTTG
GGGGCATATTCCCAAGTCAGTGTGAACATGCTTGTCCCAAGAGGACACTTTATACGCATGGATGTTCAAAAT
TTATTCTAAACTGCAGGTGCTGTCAGGATTCATTTGTTAAACATGTCCTCTGTGTTAAAAATCCTAAAAATCCTT
TTGCATTTCTTAGAAAAAATCACGTTTCTGATGAAATTTCTAAAGATGTTTGCAATATTAAACTAGAAATATATTAA
CATGTATAATTTTGAGACAAGGTCTTGCTCTGTCACCCAGGCTGGAGTACAGTGGCTCGATCATAACTCACTGCC
ACCTCACGATCCTCTTGCCCTCAGCCCTCCGAGTGGCTGGGACTGCAGGCGTGTACCACCATGCCTGGCTAGTTTT
ATTTTTAGTACATAGCCTTGAACAACCTGAGCTTAAGCGATCATCCTCCCTCAACCTTCCAAAGTGCTGGGACTGT
AGGCATGAGCCACTGCACCTGGCCTGAAATTACATTGTTACAGGCACGTAAGTAACACTTCCTGGATCCAAAAAT
GTGTATTCTGCATTTCAACAACCTGAACCTAAGCGATCATCCTCCCTCAACCTTCCAAAGTGCTAGGACTGTAGGC
ATGAGCCACTGCACCTGGCCTAAAATTACATTGTTACAGGCACGTAAGTAACACTTCCTGGATCCAAAAATGTGT
ATTCTGCATTTCAACAACCTGAACCTAAGCGATCATCCTCCCTCAACCTTCCAAAGTGCTAGGACTGTAGGCATGA
GCCACTGCACCTGGCCTAAAATTACATTGTTACAGGCACGTAAGTAACACTTCCTGGATCCAAAAATGTGTATTCT
TGCATTTTCATATTAAAAATAAAAAAGCAAGTGCTTGGGATACAAATATCTGCATGAAAATTTAAAGACTTTATTCC
TGACTGGTATCACTTTTAGTAAGCAGTTGAACATAACTTGTAGTGTGAATATGGCTAAAAACAAAGGACACCTGAT
GTCTGTGAAGTCTGCTAAGGACAGGTACAAAATTTATGCATTGCTTTTTAAAAAGTTTTAAATGAGGAATGCTTT
TGATAATCAGAAAGACTAATGTAAAGTGCTGACTGATGTCCTGTCTGCAGTTAAGGAAGACACCCAACTCTCTTC
TTCCTCATCATGGTATTCTCTATGTATAGATCTCTAAAAATGCAAACTTCCTATGGACAAGACAATATGATTTC
TATAATATGAATTAAGATATGGTAATATCTAATAGTCTCCACTGCTAGGATTCTGAGTAACACAAAAATAGGTT
TTATAAAAAGCCCATGCACTTCAATTGGTGGGGGAAAAGAATAAAGTCATTTTCAGTCCGACTGACTCTGTAAAC
AGATTACCAATATAACAAGCTATGTTATCTAAATTGCCCTGGCAGTCTTCAGTTTTCTCTAAGTAAACAAAGTAA
AAGGAACAATAAGGATGCAGGCGTAGTAATAGCTGTGGAAAAGATGAACTACAGCCACAGTGACCTGTGGGCAG
CCTGCGTAGAGATAAGCTGAGGTGTCAGTCAGACTGATCCTGGTAACGATACTCCATGGCTGCATGAAGATGCTG
GAGGCATCAAGTGGGTGGCCTTAACCTCTAGTGGATTCACTAGGCAATGTAAATTGGTTAGTGGGTCCCGTAAGT
GCCTGTAAACAATAAAATTTCTTTTTCAATGTCCCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2395A

GCTTATATTTTTTCCAGCTCCCAAATTCCCTTTATTCCACTTTAGTCCCTTCATTTTCAGAGATGAGGAAACAGA
TTGCTTTTGTCAAAGACAGCTAGAACTAGAACACAGGCTAATACTTGCTAGCCATGTGATATACTAATGTCAGCC
AAATACGGGCATTTACACTTTCAGATGTTTGCCATATCTGTGCACTTACTAATTCTGTTTAAATACAATTTAAATT
GACTCCTTTAAATAAGCTTATTTTAAAGGAAATTTTTTGCTACTATAAAATAGAAAACCATTTATATCCTTTAAATA
GTAACCTCTAAATAGGAATTCAAAACAAAGCAACGTTATTAAAAATTTAATTTAAATTAATTTAAATTTAATTGTT
ATTAAATTTTAAATTAATGCTGTTCTTCGTCAGAAATGTGTCAAAGCATTGTTTTCATGTTTGATGTCAGTTCCT
TAATTGTCTAAACAGAAAAAGCACAGCTAATGCCTCTAGTTAAGCTTCTGTATAACTTTTTTAAATGAAATGCTT
CTTAGAGGGGAAATGAGAGGGCATGAATACATGTTTATATACTAAAGTATGATTTCATGTATATCAGAAGATCTT
ATTATATGGAACCAAAATTAATCTTTGGTTGATTAAATTGTTCTTGAACTTCAGTTTTTACCTTGAAGGTTTTA
GTTAGCTTAGCATAAGTTTTATTTTCTAAATAAGGAATCTGATTGCCTCACAACTCAGATGTATCACAGTTATGG
TGAAATAGCAATATATTGGTTTCTGTAACTTTTAAATACCGTAATGAATTAATAATCTCTTCAGCAAAAGCAAAAT
ATATCTAGGGTGACGAGAGGTGTTTTAGTGTATTGAATGATGGAATGTTTTTCTTAAATATTTCTGAAGCA
TTTTTTAAATAATTTTTGAATTTATTGATGATAGTAGTTGTGTGTAGTGTGAATGACTGGTCTAAATGTGTA
TGCACTTCCAAGGGATTAGTAGGGGTGAGAATGATTGTTTTTATTCATTGACTTTTTCTTTGACGTGTTCTTAT
TCATTGGGCTACATACATTCCCTGTTGCCTTCTCACCAAAAGTGCCACTACACAGGCTGATTTCATTGTACTGT
AGAAAAAGACAAGTAGACCTTTTTCAATCATGAGATTCCTATGAAATCTGTTGGTGAGGTATAAAATGAGGAGA
CTTTTATGGGCTAGCTAGTAGGAGTTTTGCTGTGAAACCTTTGTAAACAGGTCTATCAGGAAGTAGGGAGAGAAAT
AAATGCAGGAAATACTTGATCCCATTAAGCTGAGGATGAAAAAGACATGATAATATTTTGGGGATTATTTATTGT
GTGATTTTCCGGCTGATCAGAAGTGTTAATTTTTTGTATATCTTGTGTCAAATACATATATATATATATTTTG
AAATGGAGTCTTGCTCTGTACCCAGGCTGGAGTGCAGTGGTGCATCTGGGTTCACTGCAACCTCTGCCTCCAG
GTTCAAGTGATCCTCCTGCCTCAGCCTCCCGAGTAGCTAGGACTACAGGCACGTGCCACCACGCCCTGCTAATTT
TTGTATCTTAGTGGAGATGGGGTTTACCATGTTGGCCAGGCTGGTCTTGAACCTCCTGACCTCAAGTGATCTTC
CCACCTTGGCCTTTCTGAATATTTTCTTTACACACATTTAGAATACATCTAATCTGTATTATAGTTTTCACTTT
CACCATCAGACAAAAATCAGAAGATTCAAGAGAAGGAAAGTCGATTGTATTTACTCATATTTTTGCTACCGTGTT
TTTACATCTCATATTTTAAAGCTCTCTTAATTTATTTTCTGTTTGTAAATTTCTCTAGCCATTCTTTATT
TATAGTGGGTCTGCTGGTAACAAATCTCTCAATTTTTCTCGTCTGAGAATGTCTTGACTTCCCTTCCATTTTT
GTGAGCCTGAAAAATCTATGCCACTATCTTCTGGGTTCTGTGTTTCTGATGAGAATCCACTGTGAGTCTA
ATTGTCGTTATAAATGCAGTGTTCTCTCTCTCTCTGCTTCCAGGATATTTTTCTTTTTTTTTTTTTTTTTT
TCTTGAGACGGAGTCTCACTCTGTGCGCCAGGCTGGAGTGCAGTGGCGCAATTTTGGCTCACTGCAAGCTCTGCC
TCCCGGTTCAAGCGATTACTCCACTTTAGCCTCCCAAGTAGCTAGGACTACAAGGCACACCACCATGCCTGGC
TAATTTTTGTATTTTTTAGTAGAGACGGGTTTTACCATGTTGCCAGGCTGGTCTCGAACTCCTGACATCAAGTG
ATCTTCTGCTCCGCTTCCCAAAGTGCTGGAATTACAGGCGTGAGCCACTGCTCCAGCCTCTTTATTTTTTCA
GCTTTACTCTTTCTTCTGCTTTTTGACATGTGTGTCCAGTGACACACGTGTAGATTTTGTATAGTCTCACGC
ACGGGTCTATAAGGCTCTGTTTTTGTTCATTTGTTTTTCTCTATTCTCTATTTCAGATCGAGTAATTTCC
ACTGTTCAGTTTTATCATAGCTGCTTTTAAATCTTTGTGAGGTAATCTGTCTATCTAAGTTTTGGCACCTATTGA
TTATCTTTTGCATTGTTTTTGTTTTTGTTTTGTTTTGTTTTGAGATGGAGTCTTGCTCTGTGCCCAGGTTGG
AGTGCAGTGGCACTGATCTCGGCTCACTGCAACCTCCTCCTCCGGGTTCAAGTGGTCTCCTGCCTCAACCTCC
TTAGTAGCTGGGATTACAGGCATGTGCCACCACGCCCCGCTAATTTTGTATTTTGTAGAGACCAGGTTTATCC
ATGTTGGTCAAGGCTGGTCTCAAACCTCCCAACCTCAAGTGATCCGCTGCCTCGACCTCCCAAAGTCTGGGATTA
CAGGCGTGAACCACTGCACCCAGCCTATCTTTGCATTGTTTTTAAATCTTGTCTGTAGGATGAATGATTTTC
TGTTAAAACTAGATATTTTATATTATGTTTCTAGGCTCTGGATATTATCTAAACCTTCTGTTTCCACTGGCTTT
TATTGACACTGCTTTGGCAAGGTCATAGGGGTGCTCATTACTGCCAGGTGGACATAGAAGTCAAGGGTCCCTA
CTCAGCCTCTACTGATGCCTCAGGAAGAGGATCCTTCTGTTATTGCTGGGTGGGGTGGAGTCTAGCTGACAC
CTACTGAGGTAGGTGCTGGGGCATGCCCCGCCATCAGGGTGAAAGTCTGGCTCCCTAGTTGGCCTACTTTTACA
TTGCCCTAATAGGGCATTGGAGCTCCTCACTATGTTTTATGAGCTGGAAGTCAAGGCTCCTCACTTAGCTTTTCT
TGGTGTGGGTGGTGGTGGGGCAAACTGTTTTCTGGGTTTGGCTGGAGTGGAGCAGTACTGTCAAAGTTTTCT
GTCTTGCCAGGCTGTCCTTTCTGTTTCTTGGCTAGAGAGCAAGCTTTTGTGTGGCTCTTTTGTCTGTG
CCAGTTGGCATTTCAGGTTGCTGCCTTCTTTAGCTCCAAGTCTGGGATATATTAGGCAAAAAGAAAACCCAGAG

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FIGURE 2395B

AATTTACACCACCGTGTCAATTCATGGGTCTGAGGTCCCTTACTTAGTCTGCCTTCTCTCCACTTTTTCACAGTC
TTCTCATGTTTTGTATATAATGTCCAGGGTCTTTAGTTATACTTAGCAGAAATAAAAGGGAAAAGTATGTCTGCT
CTATGCTTCTGTAAGTGAAGTCTTCAAATTTGCATTTTTGATTCCCTTTAAACAGTTTTGTAAAATATATAATCA
TTATTGGGCAAAATGTCCCATAAAATGTATATACCTTGTGATGGTTTGCATAAATTGTGTTCAAGAGGACTGCT
GAAAAATAACATCTTTATTTAACTGAAACGAATTGTTTCACATTATTAATGAAAACCTTTTCCCCTCTAGGAAATA
ATGCAAAAGGTGTCCCAAGGCTCCTGACCAGTGAACAAAGATTGAGAAAGACAGCCAAGCTCATGTTTTCTCCT
GATCAAGAAAATCATCCATCTAAAGCACCAGTAAAATATGGTGAACCTCATTGTCTTAGGCTATAATGGGTCTCTC
CCAAATGGCGATAGAGGAAGGAGGAAAAAGTAGGTTTGCTTTGTTTAAAAGACCTAAGGCAAAATGGGGTGAAGCCC
AGCACTGTGCATATTGCTTGTACTCCTCAGGCTGCAAAGGCAATAAGCAACAAAGACCAGCATAGCATATCATAT
ACTTTGTCTCGGGCCAGACTGTGGTGGTTGAATATACTCATAGTGAACGGAATCCTCCCTTTACAGCACGGATTAT
GTACAAAGCACTATATCAAGATTGCTTGCAGAAATCATATGTGAACGGAATCCTCCCTTTACAGCACGGATTAT
GCTGCAGGATTGACTCATCAAAAACATCTTTCTTGGGAGAAAGGCTGCCAAATGGAAGACATCAGATGGACAG
ATATGGAGAGAAATATCGGTGTGTGGAATGTATTAGCCTACGTGAAACCAGATCGGCTCAGCAGAGAGGAAAA
ATGGTGGAAATTGAAACCAATCAGTTACAAGATGGCTCGTTAATTGACCTCTGTGGTGAACATTGTTATGGCGT
ACTGCAGAAAGGCTTTCCACACTCCTACCGTGAAGCATTTAGAAGCTTTAAGACAGGAAATCAATGCAGCACGA
CCTCAGTGCCCTGTAGGGTTCAACACACTAGCATTTCCTAGTATGAAGAGGAAAGACGTTGTAGATGAAAAACA
CCATGGGTATATCTAAACTGCGGCCATGTACATGGCTATCATAACTGGGGAAACAAAGAAGACGTGATGGAAAA
GATCGTGAATGTCTATGTGTAGGTCTGTTGGTCCCTATGTTCCCTCTGTGGCTTGGATGTGAAGCTGGATTTTAT
GTGGACGCCGCGCCCTCCAACCCATGCGTTTAGCCCGTGTGGGCATGTGTGTTGAGAAAAGACAACCTGCCTATTGG
TCCCAGATCCCACTTCCCTCATGGTACTCATACTTTTCATGCAGCCGTGCCCTTTTGTGCACATCAGTTGGCTGGT
GAACAAGGCTACATCAGACTTATTTTCAAGGACCTCTAGACTAACAGACCATTGTCTTGCAGGACTACATTATA
AATTTATAAGCTAAGTGAGTTGGGTTTTTCGAACCTGTTGTCCACGTCACAGTTTTTCTGCTCTGGTCATTTCAT
TAAGATGAAGAATTTTTTAAAACATTATAATAAATAGTAGCAATTTCTGAGCAAAAATCTGGGAAACTCAAGCA
AAGGAATTTCTGAAAGTATCAGTCTTCTGAATTTCTGAGTTTGAATATATTTTGAAGGAGAAAAAGACATAGTC
TAATTTGATGCCCTTCTTTTAGTGTTTTTGAATCACCTATCCTCAGTGTGAAATTGTTTTGTATAACTGAGGGT
ACTGTTGGTTCAAACATAGTTAGTTTACAGTTTGTGCAAAACATTGTAAAATACAGCGACATGTATTAACCTT
TTTCTATTTATCTTTATTATAGAAAATACCTTAGAATGTTCTTGATAGAGTAGCATGGTAACGATGGTGTACAC
CCTTGGTGTGAATGGTAGCTTAGTGAGCAACCTAGCTCAAGGATTTGCAAAGTAGGAAGAAGGACGAGAGAGCC
TCTCTCCCCACCCCAATCTAAATATGGAATTTGGTAAATTAGAATACTTTGTAATTTGTAAGACCAAATTCATAC
TAATTACCCGCGTGAAAGGTGTTTGTTTTAAACAACATTGAAGATAATCAGGAAAGATTTTTTCTTAATGTTTCT
CTCGAGCGTAGTACTATAACAAAACTTAATGCTAAGAAACATTTTATATGCTCCTTTGGATATGCAATTTAATC
TAGATTATCTATTTTTCTCCCATGATACTAATCTGTTTTTAGTATCAGCAGCAATTTGGCAAGTTATTTTTTGG
ATATAAACTGTGGTTTCTCTGTTTCTAGAAAAAATCATTGCCATAAGAAAAAGTATAAATTAGCAAG
AAAGGAGAGTGACTTGATTGCTTTTGGAAAAAGAAATGCTTAATTAATTATCTGTATTGTCCTTATTCGGGC
ATTAGGAAATCTAGAGATCTAAAGGGTTGAATGACAATAGTCCCCCGTTTTTAGCAGACCAGCCTTAACCTCTGG
GTTTGAATCCTAAGGAGATTGCCACAGTGAGACTTAAGGAAATGTTTGGTTGGCAGATGAGCACCATGACTGCA
GCGTGGAGTGACGCACTGCATGGTCTGTTTATTCTCTAATTTCAATATGCTTTTGGCTTCCAGAAGCAAGAAAAG
TTTTCTCTCTCCCTCCTTCCCACCTTTTTTCAAAGGCACCACAAGTATAGACAGTTGCACTACATCAAATCTT
TTTTTGACACTTGTAGAAACCAGTACACTTTTAGATTAGACAGTATCTTCTTTTAAATTTTGATTGTTTTCTT
TTAGTTTGAAAAGTTGTATAATACTTAACGACTGTAGCAAAGTTTTATATGTGGTAGCATACCTTTAATTTATC
CTATTACAAAACGTCTGAATTTTCTTTTGGTTTTTAAAAAACAACCTTGTGTTAGAAGCCATGAATTATT
TTATTTTACTTCAACTGTGCAAACTTCTTGTTTTAAAAAATGATCATTGGGTTCACTCAGGAAATGCATGTCA
GGAACTTGTATTATAAGTTTATTAGTTGTGATGTATCAGTAACTGCTGTTACCCCTTTTCAAAGAAATGTAAT
TGATTTTGAAGTTTTCTAGATTGTCACATGCTTTGTGACTAATGCAAGAAAGCAAGTCTGTGTTGTATTGTTC
TAGTCATTTTATTTCAGGCTATATATTGTAGCTTAATTTTTATTGCAATTAATTTATTAACTAAGTAAATAC
TTTTCAAATA

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FIGURE 2396

MFSPDQENHPSKAPVKYGELIVLGYNGSLPNGDRGRRKSRFALFKRPKANGVKPSTVHIACTPQAAKAISNKDQH
SISYTLSTRAQTVVVEYTHDSNTDMFQIGRSTESPIDFVVIDTVPGSQSNSDTQSVQSTISRACRIICERNPPFT
ARIYAAGFDSSKNIFLGEKAAKWKTSBGQMDGLTTNGVLVMHPRNGFTEDSKPGIWREISVCGNVFSLRETRSAQ
QRGKMVEIETNQLQDGLIDLGCATLLWRTAEGLSHTPTVKHLEALRQEINAARPQCPVGFNFLAFPSMKRKDVV
DEKQPWVYLNCGHVHGYHNWGNKEERDGDRECPMCRSVGPYVPLWLGCEAGFYVDAGPPTHAFSPCGHVCSEKT
TAYWSQIPLPHGTHTFHAACPFFCAHQLAGEQGYIRLIFQGFLD

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FIGURE 2397

CTAATCTTCCAGTTGCCCCCTATTGACTTTAAACCAAAGCTTTGATTTCATGACCACTGGGATCCAGCCAGCGGGG
GATTTCTTTTCTGATGGACTGTACCCAGGATCTCACATTGCTTAAGCAGCTCCCACAATTGGGTTCTTATAAA
AGGACACAGAAGAGACAAGCTCAGTTTTCTCTGAAGGAGAAGGACTGCACCTTAGAACTGCATTTTGGTGACCTCT
GAAATTCAGTACGGCAGTGAATGAGCTTCTGACCTTGAGGTGAACCTTAACAAAATTATTTTTGGAAAAATCGTTG
TGGAACCATTAAGAAGAACTCCAGGAAACATGAATTCTGGAATCTTACAGGTCTTTACAGGGGAACTCATCTGCC
CCCTGTGCATGAACTACTTCATAGACCCGGTCACCATAGACTGTGGGCACAGCTTTTGCAGGCCTTGTTTCTACC
TCAACTGGCAAGACATCCCATTTCTTGCTCAGTGCTCTGAATGCACAAAGTCAACCGAGCAGATAAACCTCAAAA
CCAACATTCATTTGAAGAAGATGGCTTCTCTTGCCAGAAAAGTCAGTCTCTGGCTATTCTGAGCTCTGAGGAGC
AAATGTGTGGCACTCACAGGGAGACAAAGAAGATATTCTGTGAAGTGGACAGGAGCCTGCTCTGTTGCTGTGCT
CCAGCTCTCAGGAGCACCGGTATCACAGACACCGTCCCATTTGAGTGGGCTGCTGAGGAACACCGGGAGAAGCTTT
TACAGAAAATGCAGTCTTTGTGGGAAAAAGCTTGTGAAAATCACAGAAACCTGAATGTGGAACCAACCAGAACCA
GATGCTGGAAGGATTATGTGAATTTAAGGCTAGAAGCAATTAGAGCTGAGTATCAGAAGATGCCATTCATTTATC
ATGAAGAAGAAAAACATAATTTGGAGATGCTGAAAAAGAAGGGGAAAGAAATTTTTCATCGACTTCATTTAAGTA
AAGCCAAAATGGCTCATAGATGGAGATTTTAAGAGGAATGTATGAGGAGCTGAACGAAATGTGCCATAAACAG
ATGTGGAGCTACTTCAGGCTTTTGGAGACATATTACACAGGAGTGAGTCCGTGCTGCTGCACATGCCCCAGCCTC
TGAATCCAGAGCTCAGTGCAGGGCCCCATCACTGGACTGAGGGACAGGCTCAACCAATTCCGAGTGCATATTACTC
TGCATCATGAAGAAGCCAACAATGATATCTTTCTGTATGAAATTTTGAGAAGCATGTGTATTGGATGTGACCATC
AAGATGTACCTTATTTCACTGCAACACCTAGAAGTTTTCTTGCAATGGGGTGTTTCAGACTTTACCTCGGGCAAAT
ATTACTGGGAGGTCCATGTAGGGGACTCCTGGAATTGGGCTTTTGGTGTCTGTAATATGTATCGGAAAGAGAAGA
ATCAGAATGAGAAGATAGATGGAAGGGCGGACTCTTTCTTCTGGGTGTGTTAAGAATGACATTCAATGCAGTC
TCTTTACCACCTCCCCACTTATGCTGCAATATATCCAAAACCTACCAGCCGAGTAGGATTATTCCTGGATTGTG
AGGCTAAGACTGTGAGCTTTGTTGATGTTAATCAAAGCTCCCTAATATACACCATCCCTAATTGCTCTTTCTCAC
CTCCTCTCAGGCCATCTTTTGTGTATTCACTTCTGACCAGAGACAAATCAGAAATGTGTTACATGCTGTGGG
AACCCTTTTATCCAGGAAGTCCTCTTCTTGTCCTTAACATACAGGACAAATAGGCTCTATTTTATGTCTTGA
ATTGCCCTTCTAATGTTATCAAACTCATTTATTGTGTTACTATTAAATATGCTGAAAACGCTAAAAGTATACGTA
TTGGTTCTTTATTAATAATTTTTGAAAAATCATTATTATGATCATGGCATAACAGTATATTCTCTTTTTTTCT
TTATTTATGACTGTCACTGAGTGAATAATAGATGACAGACATGTCTGAATGAAGTAAAAATCAATGGAAGACAG
TCGGGATCTTTTGCTTCATGCAAAAACTTGAGTGAAGTCTCAATGATAACTGGGAAATGTTTTCTTCTCTT
TATCTAACTATATTACACTTATCCATCAGGTTTCATTGTATTAATCTATCCTTTGAGGTAATA

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FIGURE 2398

MNSGILQVFGELICPLCMNYFIDPVTIDCGHSFCRPCFYLNWQDIPFLVQCSECTKSTEQINLKTNIHLKKMAS
LARKVSLWLFLSSEEQMCGTHRETKKIFCEVDRSLCLLCSSSQEHRYHRHRPIEWAAEEHREKLLQKMQLWEK
ACENHRNLNVETTRTRCWKDYVNLRLRAEYQKMPAFHHEEEKHNLEMLKKKGKEIFHRLHLSKAKMAHRMEI
LRGMYEELNEMCHKPDVELLQAFGDILHRSESVLLHMPQPLNPELSAGPITGLRDRLNQFRVHITLHHEEANNDI
FLYEILRSMCIGCDHQDVPYFTATPRSFLAWGVQFTTSGKYYWEVHVGDSDWNWAFGVCNMYRKEKNQNEKIDGKA
GLFLLGCVKNDIQCSLFTTSPLMLQYIPKPTSRVGLFLDCEAKTVSFVDVNQSSLIYTIPNCSFSPPLRPIFCCI
HF

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FIGURE 2399

GAAGTGCAGCTGGTGGAGTCTGGGGGAGGCITGGTACAGCCTGGCAGGTCCCTGAGACTCTCCTGTGCAGCCTCT
GGATTCACCTTTGATGATTATGCCATGCACTGGGTCCGGCAAGCTCCAGGGAAGGGCCTGGAGTGGGTCTCAGGT
ATTAGTTGGAATAGTGGTAGCATAGGCTATGCGGACTCTGTGAAGGGCCGATTCACCATCTCCAGAGACAACGCC
AAGAACTCCCTGTATCTGCAAATGAACAGTCTGAGAGCTGAGGACACGGCCTTGTATTACTGTGCAAAAGATACT
GAATTAATCCTCTTTTCGCGATTCCATAACCCGCCAATTACAGACTCGAATTGACTAC

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FIGURE 2400

TTTCCTTTCACACAGCAGCATCATTTATCTGGTAGTAGCAAGACAGCCGTATGACTTTTTGTTGTTGTTAAAGAA
AAATAAGTTGTCAAGATTTGCCTACCAATAACTTTCCTATGTCTTGGCTTTCATGTCCAGTGGGCTAGTTTCCAA
CTGTTTGAGACTCAGGGTAATCCCAGAAACCTGTGAAGCATCGGCACAAAGGTTGTAGCGCAGATGCCAACAGAT
GTGTAGGTAACAACTTGTAAAGCACTTCAATCTCCAGTCTCCGCCTGGCCTCCTTGTTCTGGTGACCACCTTG
AACCATGAGTATAATACTTGCAGTGAGAGATTTTGTACAAGCTGACGAACCAAGAGGATCAACACAATTCCCACT
GCAAATTTGGTCAGACCCAAAATAACATGTAGGTGGTGAGCGGTGGGATGTTCTGAATAACAGGGAGAGATTCA
GCGGGCTTGGATACAAGCTGGAAGAAATGGTTGATCCAGAATCCTATGGTCACTCCAGCCCCGGCAGCCAGAATG
GTGGTGGTGTCGCCCCGGGTGGGCTGTA

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FIGURE 2401

AACGTTAAATTTAGATGTTTTACCTCTAAATGAGGTGAAATTGCAGGTTCCCTCTGGCTGGCGGTGGGGAGGAGA
CGCAGGGCAGCTTTGGCCAGCAGTGAGCGGACAGACTTAGCGGGAGTAGACTCTGCTTCCTCCAGCCACACCTTG
GGGACGGAGGGCCAGGACAGTCCCCAGTGTCTGGGAGCATCTGGCTTCCTCTCCCTGCACACACCAGCCGGGTCT
GAACGGCATCAGTTCTAAGTGCCAGGCCAGAGAGAGGACAGGAGTAGAAGAGGCTGTCTGTCTG
CCACCAAAGGTGACCACCAATGTCGGTGAGGTTGCGGTTCCCTGTCCCCTGGGGACACAGGGGCCGTGGGGGTCTGTG
GGCCGGAGCGCCTCCTTCGCAGGCTTCAGCAGTGACAGAGCCGAGGATCGCAAAGTCCATCAACAGGAACCTCC
GTGAGATCGCGAATGCCTGCAAAATCCTCCAAGATGTACGGCACGCTGCGGAAGGGGTGGTCTGTGCAGACCCG
AAGCCCCAGCAGGTGAAGAAGATCTTCGAAGCATTGAAAAGAGGCCCTCAAGGAGTATCTGTGTGTGCAGCAGGCT
GAGCTGGACCACCTGTCTGGACGCCACAAAGACACCAGGAGGAATCCAGGCTGGCTTTCTATTATGACCTGGAC
AAGCAAACGCGCTGTGTGGAAAGGCACATTCCGAAGATGGAGTTTCACATCAGCAAGGTGGATGAGCTGTACGAG
GACTACTGCATCCAGTGCCGCTGCGCGACGGCGCCTCCAGCATGCAGCGGGCCTTCGCCCCGTGCCCCCGAGC
CGCGCAGCCCGAGAGAGCCTGCAGGAGCTGGGCCGACGCTGCACGAGTGCGCCGAGGACATGTGGCTCATCGAG
GGGGCCCTGGAGGTTACCTGGGCGAGTTCCACATCAGGATGAAAGGCTTGGTGGGTACGCACGCGCTCTGTCCC
GGAGACCACTATGAGGTGCTCATGCGTCTGGGCCGCCAGCGTTGGAAGCTCAAGGGTCGGATCGAGTCAGATGAC
AGCCAGACCTGGGACGAAGAGGAGAAGGCCTTCATCCCCACGCTGCATGAGAACCTGGACATCAAGGTGACGGAG
TTGGGGGGCCTGGGCTCGCTGGCTGTGGGTGACGTGACGTGACATCGCCGACTTCTTACGACGCGGCCGCGAG
GTCATCGTGGTGGACATCACGGAGTTGGGTACCATCAAGCTGCAGCTGGAGGTGAGTGGAAACCGTTTGATACT
GAGAGCTTCCTGGTGTACCCAGCCCCACGGGCAAGTTTTCTATGGGCAGCAGGAAGGGCTCCTTGTACAACTGG
ACACCCCCGAGCACCCCCAGCTTCGGGGAGAGATACTACCTGTCTGTCTACAGCAGCCAACACAGCAGGCGCTTG
CTGCTGGGTGGCCCAAGGGCCACCTCCATCCTCAGCTACCTGTCTGACAGCGACCTCCGGGGTCCAGCCTAAGA
AGCCAGAGTCAGGAGCTGCCTGAGATGGAATCCTTCAGCTCTGAGGACCCCCGAGACACGGAGACCAGCACGTCG
GCGTCCACCTCAGATGTGGGCTTCCTGCCCTTGACCTTCGGTCCCCACGCTCCATTGAAGAGGAGGCTCGGGAG
GACCCCTTGCCCCAGGTCTCCTGCCAGAGATGGCCACCTCTCTGGAGGCCCGTTTGAGAGCAGCCTGGCTGG
AGGAACCTTAGGAGGGGAGAGCCCCAGCCTGCCACAGGGCTCCCTGTTCCACAGCGGCACAGCCTCGAGTAGCCAG
AACGGCCACGAGGAAGGGGCAACCGGGGACAGAGAGGACGGGCTGGCGTGGCCCTCGAGGGGCTCTGCAGGAG
GTCCTGGAGTTGCTGAGGCCACGGACTCCACCCAGCCCCAGCTCCGGGAGCTGGAGTACCAGGTCTCTGGCTTC
CGGGACCGGCTGAAGCCCTGCAGAGCACGGCAGGAGCTCACCTCGGCCGAGAGCCTGATAGAGTGCATCCTGGAG
AGCTTCGCCTTCCTCAATGCCGACTTCGCCCCGATGAGCTGTCCCTGTTTGGGGGCTCCAGGGTCTCCGGTGA

GTGCACCTCCTTCCAGCAGTGACCCAGTGCGCCACCACTCCCAACGGGTGACCCGAGCTCCACGTTTCTGCCAGC
CTCCCCGTCTGTTTCTCCCACTGTCTTGGCTCAGCTCTTGTCACTCTATCGTGACCCCTTCCCCATGCCATCCC
CGCACATCCCCCACTTGCTCAGAGCCGGTCTCAGAGACCACGAAGTGGGTGAGATACCCAGCCTGCCCCTG
AGCCTTCTGCTCCAAGGAACAGCTTTTAGTATTATTTTTTAAACCTTAAAAATAATCACCAGTATATAGTAGA
AGTTCTTTGAGGCCAGGCACAGTGGCTCACGCCTGTAATCCCAACACTTTGGGAGGCCGAGGCAGGCGGATTACC
TGAGGTGAGGAGTTCAAGACCAGCCTGGCCAAATGATGAAACCCCGTCTCTACTAAAAATACAAAAATTAGCTG
GGCATGGTGGCAAGAGCCTGTAATCTCAGTACTCAGGAGGCTGAGGCAGGAGAATCACTCGGACCCGGGAGGCG
GAGGTTGCAGTGAGCCAAGATGGCACCCTACATTTAGCCTGGGCGAAAGTAAGACTCTGTCTCAAAAAAAG

2642/2682
FIGURE 2402

MSVRLRFLSPGDTGAVGVVGRSASFAGFSSAQSRRIAKSINRNSVRSRMPAKSSKMYGTLRKGSVCADPKPQQVK
KIFEALKRGLKEYLCVQQAELDHLSGRHKDTRRNSRLAFYYDLKQTRCVERHIRKMEFHISKVDELYEDYCIQC
RLRDGASSMQRAFARCPPSRAARESLQELGRSLHECAEDMWLIEGALEVHLGEFHIRMKGLVGYARLCPGDHYEV
LMRLGRQRWKLKGRIESDDSQTWDEEEKAFIPTLHENLDIKVTELRLGLGSLAVGAVTCDIADFFTTTRPQVIVVDI
TELGTIKLQLEVQWNPFDTESFLVSPSPTGKFSMGSRKGSLYNWTPPSTPSFRERYYSVLQQPTQQALLGGPR
ATSILSYLSDSLRGPSLRSSQSQELPEMDSFSSDPRDTETSTASTSDVGFLPLTFGPHASIEEEEAREDPPLPG
LLPEMAHLSGGPFAEQPGWRNLGGESPSPQGS LFHSGTASSSQNGHEEGATGDREDGPGVALEGPLQEVLELLR
PTDSTQPQLRELEYQVLGFRDRLKPCRARQELTSAESLIECILESFAFLNADFAPDELSLFGGSQGLR

2643/2682
FIGURE 2403

GGATTAGCAAAGGCTTTAGAAAAC TACAAAAAGACTAATTTGTTGCCTCTGGATGTGTGTGTTATTTGGGCTG
TTAATATACTTGACTGCTTGTTTCAAGGAC TGGAACCTTTTCITTTACCTTTAAGATTCCTGCATTTTCATGTGC
TCATTCAGCTGGGATTTGTGTTTCATAGAACTGGTAGTATTGGAGGTAGAGGAGATACTGTGATATCATATCTCT
CTCTCTGTCTGTCTCTCTCTCTCTCTCCCACTGAAGAAGAGAAGACAAAATTTAGAGAATTTGAGACTTGCTCAA
AGTTGTGTAGCTTAGTTAGCGATAAAGCTGGAATTGCACCAGATTGATTCCATGACATTGCTTTAGCCTGGTGG
TTCTCAAAGCATGGTTATTGGACCAGCAGCATCCCTTGGGAATTTGTTAGATATGCAAATTCATGAGATCCCCAT
TCCCTTATCAGAAATTTTAATACGCTGTGTAGGGTGATTCTAATGCCTGCTAAAAC TTGGGAACCACTACTGTGG
TCTTTACACTATTGGGCAGGGAGATGGGAGACTACAGGTAGATTTGCTGAATTT CATGGGCAACACTAGGTTTTTC
ATTTTACCTTATTGTTCTGCCATTTAGATGTCTCCTTTAAACATTTTACTTGCA GTGATGGCTTCCTTAGAC
TC

2644/2682
FIGURE 2404

ISKGFRKLQKRLLICCLWMCVLFWAVNILDCLFQGLEPFLLEPLRFLHFVLIQLGFVFHRTGSIGGRGDTVISYLS
LCLSLSLSPTEEEKTKFREFETCSKLCS

2645/2682
FIGURE 2405

GTTTTGGTTGTGAGTCTTTTAACTTACATAAAAAATAGGAGAATTAGCATATTCACATATCTATTTTGTGATGTT
TATCATACGGAAGTTTTAAATATAGTAAATTCAGTCTTTCCATTTTTTTTGTATTATTAAGAACCATTCCCTA
GCTAGGGTCATGAATACATTCTTATGAATTATAGAATCCCAACTGGATAGCTAGTTTCCCTAGCACCTTTAAAAA
ATAGTTTATTATTTTCTCCTGATGTATAAGGCCACCTTTACCAATTACATATAATGTACGGAATGTTTCTTG
GCTCTGCATTCTGTAAATTGGTCCATTATCTAACTTTGCTTAGTAACCCACTGTTTTATCATTGTGGTATCA
TAATTGATTATCACAAATGGTAGAATGATTGTCCTCAAAGTCTTTTCTGGTATATATTGATATAATTGTATAGCT
TTTCTTGGTGTAGTAAAGTACACAGTTAAATTTTCTAACATTGAAATATCTTTTAGATTTTCACTTCCAGAAATGG
CAATGTGAAGGGCCCTGTGGACCCACTGTCCTAGGAATTAGCTATAACTAGTGAAAAT

2646/2682
FIGURE 2406

TTTTTTTTGGCTTTTAAAAAGTAAATTTATTACCACACATAATAAGCTCCAGAGAGTAGAGAGATTCCATCATGT
CATCAAGACCCCATGATAAATCTGTAAACATTTTGGATTTTTTTTGAAGTGTACACTCTGTTACTCTCAATATA
TGGGTCTCATACTTTGGCCAGGTTCCCTCTGCAGTGCCTCAAAACTCTGTCCCCTGGAGCAGAAAAACGGGGCTG
TATTTTACCCAAGTTGGCTCTGCCCTTGCACTTTTTTATAATTGTCTCAGGATTTAGGACAATAGCTGCAGGTAG
GAAACAGGGAGAAAAGAGCAGTTGTATATAGTCCCTTGGGTTTTCACAGCTCCTCAAAGAAACAGAGAATTAATTA
CATGGTAGATCTACCCTATTACTGGATCCCAAGAGGGAGCCATCACCAGGCCGTCTATTATTGCTGCTCTACGT
CTTGTAACCAATAGCAAGCATCCTGTTCTCAGACACTAAGTTGGGTTTGGAGACCATGAGTGTATGGAGACACG
ATGTCATAAATAATAAAGCTTGGGAGAATGTGGGGCATCGATCCCACTACCTTCTTGATGCTAAGCAAGCGGCT
CTACCACTTGAGCTAAATTCCCCACATCAGGGCAGCATTATTTATTGGTTAGCGGGTGGCCTGGAAACACAGGT
GATTTTCAAGGCTTTCAGCAGGAAAGCAGGGCTCCTAAGAGCAGATTTTCTTCACTTGATGGGCCCAGGGCAAACA
GCAGTGGCTACTCATTGTCTGCAAAGAAGGAGGAGAAAAGGGAACAAGGAGAAAGTCACAACGGGAAAACCTTAC
GCTGCCAAAATGCCAAGTTTAGAGTATTCCGGGACAGAAAAGGGCACGTCCTAGCAAAGGAGGACCTGCCTAGAC
ATGCCCAGATAACTCTATTTGAAAGCCTTGACACTGCGGATGAGAGATCTCTGGAGTGTGTGCAACCCAGTGGTC
AAGTGAGGACTGGAAGTGGGCCATTGCACAGTTCAAGCTCTCAGGCTCTTTTTAGGTAAGTTGTTCCGGGATTAG
AGCCACTTATTCACAGCTGGCAGGTGCGTCCACAAGCTCATGAACAACCTTTATGGTTTTGCTTTCTACAGTATCT
GTCCAGGCACATTCTAGTTACTTGACACATCTTGGTTTTCAGTCTCTCACCAGAAAGCTGGGGCTGTATTTAACC
AGGTGGCTCTGTCTCCACTTTTCACAATTGTCTCACATTTAGGACCAAGCTGCAGGCAGAAACAGGGAGAAAAG
AGCAGTTTTATATGTCCTTTGGTTTTCACAGCTCCTCGNAGAAACAGNAAATTAATTACACAGTAGATCTACACTA
TACTGAA

2647/2682
FIGURE 2407

CAAAATTAAACTTAGACTTTTTGAATTTATTAGCTGTTTTGTGAAGATTAAATTTAGAAAGCTAAAATTAAACA
CTGAAAGTAAGTTACTTTATTCCATACGGTCTCTGTCCAGTTTTAGCACTAAAATCAGTTCAAGGATGCCAATCC
CTAATTGGCCAAATAGCCTTACCATTCTTGTTTTCTTCTCCAAATTTGTTTTTTGCTGGTCAGATAACTTCCAA
TCTCTAAAATATTCTGAAATGATAAATTTTTATGATACAGCATAGAATAATATGTATGTGGAGACTTGAAGGAG
TCAAATCTCAATGAGCCTTTTGTAGGGCTTAACGATTGTTAAAAGGGGGCCAAAAGGGCACTAATTTTTGGAAG
TGTATGTTTGTATGGTGGTGAATGTGTAGAGAGGGTGAAGGTAAGGAAAAGTAGAACAAGAAGAAAGAAAA
CTGATAGGTATGACGATGAGAGAGAAAGAAAATGGGAAGAGAGCGCAAGACGTGCAGATTTAGAAAAAGGTTGA
GGGAAACATATTCAAAGGGGAAAAGAAAGCAGGGGGAAAATACATTAGAGGTGTTGAAATTAGTAGGCACTCAC
AGAGGTGCTAATCGAGAGTTCTGTTGGGCTCCTGTCTATGCTGCTATTAAAGAGCATTAGCAGCTAAGAGATCTAA
ATTCTAGTCCTAGTTCTTTGTGTTGCCGTGGAGAAGTCAGTTAACTTACATGAGGCTCAGGTTCCCTTACCTGTGT
GTAAATGGGAACATTGAACTAGGTGATCTTTAAGATCCCTTCCGGCTCTAAAATTGTTTGACATTATCTTGGTG
GTCAGTAACTGTGAGAAACACATTCCTGAGGAAAATTTGCAGCTATAGTTGACTTCAGGACAGCATGTTTAGGGA
GTAGAATGTAAGCTCCCTGAGGGTAGGGGCCTTTTCTGTTGTGTTCACTGCCATATCCCCAGCAGCTAGCACAAT
GCGTGTTACATAGTAGGCATTCAATTAATGTTTGTGAATGAATGATGTGAAAAGTATGTTGATGGTTTGTAGG
AGCACACCTAGAAAGCCTCAAAGAAAAATGGTGTGCTTTAGGGAGGGGAAAAGACAGATTTCTTCTGAAGAAATCT
TAAGCAAGCTGATTTTAAATCCTTATTCTTCCTTATTTGTCCAGATTCAAAGAAAGTGGCTTCAGCTAGTGAC
ATTCTCATAGTCACAAAACCTTACGGTGACTGTAGACATACATAAAAGTGTACATGTAATCTAGGCCAGTTCCCTT
TAAGTATCTTACAGAAAGCAGGACCAAGCTTAGGTCTCCATGGAATCTGAGTGAAAAGTATATACATGGAATAT
ATTAGTTATATTGAATTAGATTGATTGGATTAAATTCATTGAGAGGCACAGTTAGTCTACAAGNCTGAG
ATACAGGCTGCCAAATTTAAGAT

2648/2682
FIGURE 2408

KLNLDFLNLLAVFVKINFRKLKLNTESKLLYSIRSLSSFSTKISSRMPIPNWPNLTLVFFSKFVLLVR

2649/2682

FIGURE 2409

CTTGAGTACTTTTAATTTGCCATGCACAACCTTTAAATTCTTTTTTCTATATGTCTCAGACAGAATAGATGGAGT
GTGCAAGGATAGATGGTGAATATGTATTTTGGTAAATTTGTAGAGAAAACGAAGAAAACATATAATTCATAAAT
AATGATAATATCCAATGTCTGTTGGGGGCAAAGAGCCTAGAATGGACAAAAGTAGTATGTAAATTTAGAAGGGTG
GGAGATCAGATTTAAGGCATCCTGAGGTCAAGGTATATTTGGAGAAAAAATACTATTTAACTTCGTTTCAGAA
GAATGACGTAGAGTTTTAATTAAATCAATTCCAAACATGTAGAGGGAGAATTAGGATGGGGAAGAGAAAAAGTACA
CCCAAAGGAGGTAGGAAGGGTGAGTGTAACACAGGAAAGGCAGAATGAATAGAAAGGATAAATAGAAATAAGAGA
GTGGAATAAATCCAAAGAAGTAAACAAAATAAAGGAAAAAAAATCTGAGCATGGTG

2650/2682
FIGURE 2410

LSTFNLPCITLNSFFLYVSDRIDGVCKDRW

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FIGURE 2411

CTGGGACATCTTCATCCTTTTTGTCCCCATGACCTTCCTTATTTATGCTAATACATTTGCCTTCCTTGAGTTCCT
CTACACTACCTATCTCTCAAATGGCAGCAGGGTCAACATCACCATAGTCTGCTATTCTTTGATAACTCCATTTAT
GCTCTCTTTGAAGTTCACCTTCTGGCATTATCACTTTTCATTTCTTTGCTGCATTTTATCTTTGTTGGCCAGTTC
CCTCTTTTCGTGATACATTGTTGTAAAATCTCATGGGAGTTAGCCACCTGGAGACAGGGAGGCAACAGAACTACA
CACTTTGCTGCTGTGCATAAATTGAAGAGCAGAAGCTCAGTGACCAATCACTGATGGACTTTGAAAGGAGTGAC
AGTAATTGGCCCTCAATTATGATGCTTATCTTTTATTTATGTCGTGATTTCTAGACTGAAGAGTTAGCAACAAAG
TTTATACCATATGCAACTACTCGTGATCAATATACCAAGGTACTGAAAAAGAACCATGTCAGTGGGCTACTAGTG
TTATTTAACTGAATCATGCAGAGTGAGGGCTGCCTGTATTCTTGCTTTTGTCTAGAACTGAAGCATGGAGGG
TCAAATAATGCATCCAATGTTATTTAGAGCTGGAATTTGAATCCATGCAGTTGGGTGCAGAGTCTGAGCTCTTAA
TCACCTTGACCATTACATTACCTTGCTTTTTTATTTCCCTTTGGGGAAATGTTTCCTAAAAAATGTAACGCCCTCT
GTGCTGCTATGTGGGAATCAGAAGTCTCAGTGCTGAT

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FIGURE 2412

WDIFILFVPMTFLLIYANTFAFPEFLYTTYLSNGSRVNITIVCYSLITPFMLS LKFTSGIITFHFFAAFLSLLASS
LFS

2653/2682
FIGURE 2413

CAGCCATGGCTTTGCTGCAATACTCTGGGCCATTATCGGTTTTGGTTTTTCTGGGATTCCCATAACTGCAAAGC
AAAAAAAAGGTTTTTAAACATGAGCTGTAGCTTCCCCTGTTTGATATGTGGCCCAGATAAAATGTGAATAAATAT
CTACTGAAACATGAACAAAGGACAATTTCCAAAAGTGGGAATGTGTGTTATGTCCATCTGACAGATGGAATTG
GAGATAGACCTCTAGGGTTAACTCCTGCTCCCTGATGTGGCAGATGCAGGACTTCACCGGCAGAAAAGTGTTTTA
CAATCTCCTTAACCTGCTTCCAGGATAAGCCGTATCTTTTCTGAGGCCTGCAGCATTAAAGATGGGTAAAGCAAT
GGAACGTTTGTGCATCGGCAAAAGCTGCAGAAACCAGTGCATCCGCCCTTGATTAAAGTTAAAGGACCAGGGAG
GTTAGTATGTGCTCTCATATGAGTAATATAGAAAGGGGAATGCTTTGTTGTACTGCTTGTGTAAAGAATGAAA
TAAAAGATTAAAGTTGTCACC

2654/2682
FIGURE 2414

ACAGCCGAAGGGAAGCAGCAGGTTGGGGCTTCTTGTGGCCAACCTTCAGAGCCTGTCACCAGGAAAGGTAAGCAT
GGGAGGAAGGAAGATGGCGACAGATGAAGAAAATGTCTATGGTTTAGAAGAGAACGCTCAGTCCCGGCAGGAGTC
CACGCGGAGGCTCATCCTTGTGGGAGAACAGGGGCCGGGAAGAGCGCCACTGGGAACAGCATCCTGGGCCAGAG
ACGGTTCTTCTCCAGGCTGGGGGCCACGTCTGTGACCAGGGCCTGCACCACGGGCAGCCGAGGTGGGACAAGTG
CCACGTGGAAGTCGTGGACACTCCGGACATTTTCAGCTCCCAAGTGTCCAAGACAGATCCTGGCTGTGAGGAGAG
AGGTCACTGCTACCTGCTCTCGGCCCCCGGACCCACGCGCTGCTCCTGGTGACCCAGTTGGGTTCGGTTACCGC
CCAGGACCAGCAGGCGGTGAGGCAGGTGAGGGACATGTTTCGGGGAGGACGTCCTAAAATGGATGGTCATCGTCTT
CACCAGGAAGGAGGACCTGGCCGGGGGCTCCCTGCACGATTACGTGAGCAACACAGAGAACCGGGCCTTGCGCGA
GCTGGTGGCCGAGTGCGGGGGCCGGGTCTGTGCCTTTGATAACCGGGCCACCGGCCGGGAGCAGGAAGCCCAGGT
GGAGCAGCTGCTGGGGATGGTCGAGGGCTTGGTGCTGGAGCACAAAGGGCGCCATTACTCCAACGAGGTGTATGA
GCTGGCGCAGGTGCTGCGCTGGGCAGGCCCTGAGGAGCGGCTCCGGCGGGTGGCGGAGCGCGTGGCAGCCAGGGT
GCAGAGGAGGCCATGGGGCGCCTGGCTGTTCGGCCGGCTGTGGAAGTGGCTGAAGTCCCCAGGAGCTGGAGGCT
GGGCCTGGCCCTGCTGCTGGGGGGCGCGCTCCTGTTCTGGGTGCTGCTCCACAGGCGGTGGTTCGGAGGCCGTTGC
GGAGGTCGGGCCTGACTGACAGCGCAGGTCCTAAACTGAAGGCAACTTGGTTAAGGGAGGCTGAATTCTTGGAG
CTGAAGGGAACCTTCATTCCAACGGAAGGAATCCTGTAGTTTCAGGCATAGTTTTAATGACACAGAAAACCTTTC
CTGCATCACCTTTGCAACTTTGCCAAAGCTCAGAGTTCACCT

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FIGURE 2415

MGGRKMATDEENVYGLEENAQSRQESTRRLILVGRIGAGKSATGNSILGQRREFSRLGATSVTRACTTGSRRWDK
CHVEVVDTPDIFSSQVSKTDPGCEERGHCCYLLSAPGPHALLVTQLGRFTAQDQQAQRQVRDMFGEDVLKWMVIV
FTRKEDLAGGSLHDYVSNTENRALRELVAECGGRVCAFDNRATGREQEAQVEQLLGMVEGLVLEHKGAHYSNEVY
ELAQVLRWAGPEERLRRVAERVAARVQRRPWGAWLSARLWKWLKSPRSWRLGLALLLGGALLFWLLHRRWSEAV
AEVGPD

2656/2682
FIGURE 2416

TTTTTTTTTTTTGTTAAACATATAATTTTTTTTATTTTGAGCGTGACACTTCTCCACTAGATAGCAAGGAAAAGT
GGTAACAATTACACATTACACAAAAGTACTGTACCATTGCCTTTATCTTGAAGGTTTCGGAAGCCTCTACAGTTA
ATAAGTTAAATAAAGGGCTTGAGTACATAAATATTTGTCTAGGAACCCTACCGTATCTACAACACAGTAAGAATC
TACGGGAGGACAACTTTTACCATAACCACGCTGAGTGCAATTGCGTTATAACATTTCAAATATACAAAGCTCTGT
TCTTTTTTTTTTTTTTTAATAACAATGGTATGTACAGAATCAATAATCACAGTTTGGTGACTTCAACAGTCCAT
ATTCTAGCAGAGTATTATTTCCCTTTGGTTTGATATAAAAACCTTGGTTGGTGTATGATAAAGAAGAGACAAGA
ACAAGACGCCCCCTTTCCCTTAAGTGCACGTGTAGCTATCTTACAGGCTCGCATTTGCTTCCCGGGCCCTGGCTTC
ACGCTGGGGCCCTCGCTGGGGAGATCAACTTCGAGCGCCAAAATGCTATTTAAAAAAAAAAAAAGAAAGAAAGAAA
GAAAGAAAAGAAAGGCTAAGTGGGGTGTCTAGGAGGAAGAGGTTGGGCTTTTTAAATTTTTTACTTCAATATCAGG
CGTCTGGGGGAGAAAACCTCCCCGATATTTTTCAGGAAAGTAAGAACAAGAGAGAGTGGATGTTGGAGTTGGAGCG
AGGTTGGCAGTAGCAGGGGCAGGGGCAGGGCGGGTGGACAGCCAGCCGAGGAGGTGCCACGTCCCGGAGCGCCG
AGGGCTGCCATGCCCGCATCCAGACTGCTGTGAAGGCGGCTGCGCTCTCTCAGTGCCGTCTCGGGAGTGTGCTGG
TCCTCTGTTTCCATTTGGTCTTGAGTGGTGCTGAGTGAGGTGACCTTTTCGGGGCGCGCGGGGGCGCGGGTGTGG
AGGGCAGCCTTTAGCACACCTCCTTGCCCGTGCTGGTGCCCGGCAGGATGTTGAGCTGCGTGAGCTGCGCCGCGT
GCTCCTTGGCCTTGAGCCTCAGCGCGGCTATGCTAGAGGCGCGTCTGTCTGCGGCCGC

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FIGURE 2417

GGGAACTTGAGGTTTAAAGCAGGGGGAGGAGGGCCGGAATGCTCCCCGCCGCCCCGACACTCACTCGCCCCAG
GCCCCATCCTAGCCCAGGGTCAGTGTCAITCCCTTCACCTTAGCCTCTCACTGCCCAAAGAGGCTTACTTTTCTT
CTTTAACTGCTGTTAAATTTGGGAGGAAACGGAAAGCAAGGGCACCTGATGGTTCAGTGCAGCTTCAGGTTAG
AGGGGCATTTGAGGTGCCTGAGCTGGGGGAGGGCCTTCCCCCTGAGGGACTGGGAGAAGGGTAAGCCATGTGCC
TGGAAGCACTGCAGGGAGCCTCAGATTTGCACCCCTGGCTCACACTCGCTGGCGCCAGCCAGCATGGCAGGGAT
GGCGGGGCTGGTTCTTAGGTTTCCTGCTCTTTGGGTGCTAGCACCCAGGGTAAGGAGACACCCATGTCCGGTTG
CAAGACAAACCCTTCTACCTCCTTTCCTGCCAAAGGCCACCAGCATCCTCTGCCTCAATCTCAATCTTTGGACCT
TTTAGCTCCAAAGTGGTTTGATGACCACAGGCTAAAATTCATAGTCTTAAAATTTAGATAGTTAAGAGACAGA
TCTGTTACAGGTTTTCAAATAAACTGGTCTATCTAGTGT

2658/2682
FIGURE 2418

MVQCSFRLEGHLRCLSWGRAFFPLRDWEKGKPCALEALQGASDLHPLAHTRWQPAWQGWAGLVLRFPALWVLAPR
VRRHPCPVARQTLLPPFLPKATSILCLNLNLWIFLAPKWFDHRLKFIVLKF

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FIGURE 2419

CACTGCAC TTTCAATAAGGCATTTTAGGATTTCTAAGTTATGTATGGTAAACAGCTGGATGAAAAATTCAATTGC
ATTGTTTTTCCAACTTACAGATGATTGGTATAAAGAAGGTTAAGTCTTTAGATAAGTAATGAAAATGTTTGCTT
TACACAAAGTAGAGACTATACAATGTTTTATCTCAAGATGTATTGATGTACTGAAAAATGCATTTTAAATTTTT
TCCAGAAACTACTGAGTTACAAAAAATGGGTCATCGTCCCACTTTGTTACACAGTGGAATGATAAATCTAGGT
AGGATTTTATGCCTGAAAGAGAATCTTAAATGTGTTCAGTACATTTTTGTTTCAGATTTAGAACTCAGGTTCTTG
GAGACTATGAAATGTGTCCAGAGTCACAGAGCAAGAAAGTGGCATAGCTAGGACTACAAAACAAC TTTTCAAAA
TCCTGAGACTCTCCCAATAGTTTATGAACATGTATTTATGTATTACATATTTATTATTGAACATGTATTTCTGTG
TCTTGCACTCACTGGTTTTGAAACAGAATTAAGGGATGAATAGGATATAATGTCTGCTCTCAAGGAACCCAGTTT
CAATTTCTATGTCTTTTGACACAGTGCCTAGTGGTAAGATCAGGAGAATACCATGAGTATCATGTGCCTTCAGTT
CACCAAGACATGTAAGAAAAAAAATTAATTATAGTCACATGACCCAGATGTAGANATATGAGGTCAAGGAGGG
CTGGATTATGTAGCTCATTACCATTATCATTAAATGTGTAT

2660/2682
FIGURE 2420

TALSIRHFRISKLCMVNSWMKNSIALFFQTYR

2661/2682
FIGURE 2421

ATCTTAATCCTCACAATAGTGCCCTAAGGAAGGTATTAGTATCCCCATTTTACAAAGGAGGAAACGGGGAACCTG
GGGAGATTAAGCGAAGGCCTCACAGATCATGAATAGAAGAGGCTGGAAACCTAGTCTGGTTCAAGGGTGTGCTCT
TTCTGCTCTGCCATGCTGTGCTTCAGCCCTTCCCCACTCTCAGCCCCATGTGCACGCAGATAGGGATTTTCACTC
TTTGCCCTGTATGAAAGGAGGGAAGGTAAGACACATGAGCCTAGGGGGAAGGTCCATCTGCAGGACTACCCTGAA
GGGGATGGGACATTCCCTGGCCCTCAGCCTACAAACTCTTTCCTTTTATTTCTGCTGGTGAAGCATAATTTAA
AGATGACTTTGTTTTATACATACACATACATACTCATNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCAAGATA
GAGGGCTCTCTGTAAATAAATAGACCTGTCACCTATCAAAGATGCTAACCAAGGACTTACCAAATGTCCTTTGAT
GCTAAGTATCTTTCAGAAAAGTTATTACTCAACCTGAGTCACGGAC

2662/2682
FIGURE 2422

MNRRGWKPSLVQGCALSALPCCASALPHSQPHVHADRFHSLPCMKGKVRHMSLGGRSICRTTLKGMGHSWPSA
YKLFFFI SCW

2663/2682
FIGURE 2423

GGCGTGAGCCACCATGCCCAGCCTGTCTGCTGTTGCTTCAGCTCAGAAAGTCCTGGCAGAACTGGTCCACAGGGA
GACACAAGGGCCACCCAGACCAGGGGTGGAGGCTTGAACTTTGGCAAGCCACAGTCCTGGCTCCAGACTATGCTG
TCTTGCTCCTTGGAGCACTCATGTGCTCGAACTTGGCCCAAGGAGTACTAAAGCCTCCCTGCGCCTTGCAGGCAG
TTCAGTCACCATGGAGACCCTGTGTATTCTCAACCCAATATGCCTGATACTGATTGCCACCAGAGCTGAGCCCAT
CTAGGCTCAGGAGCTTCAAATGATGGCCTTGGCCCAGACCATCAGTGTCTCGCTTATATCAACTTTGGGTTCTC
AACTGGAAATAAGCAAAGCCTGCAGATGACTCCAGCAGTAACTCACCGGAAGCCTCCTTTCAGCCGAGGTTGACA
TCCACTGTTGGCTTTATAACCTTCCTACTGATCATAAACCAAATGTGATGGGAGCTAGGACTCCTTCACCTCTC
TTCCCTTTAGTAGTAGAGATGAGCCTTGGTGGGAAGCCATTGAGGGTTTATTTAGTCATTTCCTCCATCGCTGTG
GGGACCAGAGTCCTGGCGGGAAGAGGAGGGCCAGCTCTGGGAATCTGTTGAGAGGCAGCTTTTCCATTGT

2664/2682
FIGURE 2424

REPPCPACLLLLQLRKSWQNWSTGRHKGHPDQGWRLELWQATVLAPDYAVLLLGALMCSNLAQGVLKPPCALQAV
QSPWRPCVFSTQYA

2665/2682
FIGURE 2425

CTCTGCGCCCCGTCCTCCTTTCCGGCCGCTCTCTCTCCTCTCTCCCTTCTCACCCTNGATGGGTGGGGGGTGAT
GCTGGCGGGGGCTGTAACCCCGCCCGCCGTGTGTGTCCGANGNGGGGTNNGGTNANGTAANGTNGNGTNGGAGGN
ATCGCACGGCGCGGNCCTCTGGGACGCTGGAGTTCAAGCCTCTCCCAGAGGCCGCTGGGGGCAGGCCTCGCCTCG
GGAGCCCGGGTCTTCTCCAGAGCTGCTCCGGCTCTCCTCGGCCCGCTCTCCTTCCCCCTACTTGGCCTCCCCTT
GGTGTGTTCACTTGGAAGCGCCCGAGCCTCGGAGGCACCCACTGTCTCGGGACGCGGCGTAGGCAGCTCCAACCT
ACTTTGAGCCCGTCTTGTCTGAAGCCTGCAAGTTTGTCTCCCTTCTGGAGTGACATGGTCGGCGACCAAGCGCGG
GACCCAGGCTGTGCGCGCTGIGCCTGCGCCCTGCGTTAGAGGCTCGGTGTCTGGTGTGTTACAGGCTTCTTACC
GTGTCCTGCTGAGGGGCGTGAAGTTCCTCACTGTACCGCGCCAGCTGCTACGAGGAGAGACCGAGATCACGGGC
GAGGCGGTGTCCCTGGAGGGGGATCTCTCTCTAAGCGCTGCTCGGCAACACAACCCCTCCGCCCCCCCATCCTT
CTCACTCCGGGGGAAAAAGCACTTGCTTTCCCCAGGCAAATTTCTGGG

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FIGURE 2426

SAPRPPFRPLSLLSPFSPLDGWSVMLAGAVTPPAVCVRXGVXXXXVXXEXSHGAXSGTLEFKPLPEAAWGQASPR
EPGSFSRAAPALLGPALLPLLGLPLVCSLGSARASEAPTVLGTRRRQLQLL

2667/2682
FIGURE 2427

TTAAGGGTACACAGTGTACCTAACATAATATAGGGTTATGAGCAATCTCACATATAGCTAATACAGTGTAAC TTC
CAGAGGACAATTTACACAATGTATTTATTGAAGCTTCCAAAATGTTACACACTTTTACACAGATGCTAGCAGT
GTATACTAAATGCCAGACACCAAAGTAGGCCCTTCAACCACAAAGGGTTGCTTAATTAAATTTACAGTTTGTGA
ATCTCATGTTTTGTATTACAGACTAAGTATCTATTAATAAATACAGCAGAAACACAATTTATTGACTCGCAAAGA
TGCTGTGTAAGTTCCAAAAGCAAAGAAAAAATATAAGCGAAAACGATTCAACTTTTTTGTAAGCATATACTATAA
GCAAAAATACACAGAAAAAACCTGGATGAACCTGAATAAGATTATGAATGATTTTTGTCTTATTTATTACT
TGCTGTATTTTCAAGTTGTAAAATAAATATTAATTACAAAATAAAAAGGTTTTTTACACAAAACATTAAAA
TC

2668/2682
FIGURE 2428

GGCACGAGGAGACATCACATGCCCCAGTCTGATGCACCACGGAGTCGTCTCTGATGTATTCTTGTCAAAAAATG
TTTGCCTGATTCTAATCATGAAAGAACAATTAGAAAAATCCAAATTGACAGATATTCTGCAGAATAAATGGCCT
GACCTCATCAAAAACATCAATGTCATGAAAACACAAAACATTGCAGATAGCGTGAAATTAAAGATTACAGAGAT
ATAATTTAATGCAAGATCTCTGACTGGATCCTAGACTGCAGGAAAAAGTCTGCTATAAAGAACATTGGATCACT
TGTAAGTAGCTGGGAAATAAAACAAAACATTATTTGTAAAAGGGGGGAAATCTGAACATGGGTCCTTGCAGTATTTA
TGACAGTTTTTGCAGGGCAGAGATTTCTAGATTGACAGCTGTTTTAGTACTTTCAAGGTGATGCTCTGTCTGCTG
GTTTGCATTGTTTCTGTCTGAGTTAAGAGACTGGCAGAACACAGAGTTGCAGTAGCCAAACACTGGAGAAAGCTG
GGCCCTACAGAAACCTAACGCTGAAGAAACCTCAGGAGCCAAACTGGTGGAGAAAACAAAGAGTCCTCCCTCTCT
CCCTTTTCAAATAATGATCATACTTTCAAGCTGTCTGAAATGGTTAAGGAGTTCAGTCTGTCTGTCAGGCACAC
CCCCAGAGCCAGCCTAGCCACACAGACCCNTCAGAGCCAAACCAGCAAGGAGAATTTNATTTCAATNTCCNCC
TTGAAAGGACTTCTAGGTAGGGAGGGAGACCCTTTAAC

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FIGURE 2429

GCCGCTTTGGGGGCCGCGGTCTCTCCGACGCTCGCGGGTCACATGGCCCGCCTGAGCAAGGGGAGCCCTGCGCCT
GAGCTGCGAGGCGGGAGGAGGTGAGGCTCCGGCGCACACCCAAACCGCGCTGCGCCCGCTCCTTCCGGGCCCCGG
AGATGGCGCCTCCACCGGGATGAGCTAGCCAGCCTGGGCAATACCAGAGGCGGCCCTCGGCGCGCGCAGGGGACC
GAGCTGGTCGCCCCAACCGGGTTTGATTTCTGATGACTCTGGCCTGAGTTCCAGGATGGTTTTTTCTTGGGACCA
GACATGAACAAAAGTTGACCTCATGAGCACTTCAACCTCTCCAGCTGCCATGCTCCTCCGGAGGCTGCGGCGACT
GTCCTGGGGCAGCACTGCTGTCCAGCTCTTCATCTAACAGTGGTGACGTTTGGCCTGCTGGCCCCCTGGCCTG
TCACCGACTTCTACACTCTTACTTCTATCTGCGCCATTGGCATCTGAACCAAATGAGCCAAGAGTTCTGCGAGCA
AAGCTTGAAAGAGGGTGAGGCTGCCCTCCACTATTTTGAGGAGCTTCCCTCTGCCAATGGCTCAGTGCCCATTTGT
CTGGCAGGCCACCCCCGGCCCTGGCTGGTGATCACCATCATCACTGTGGACAGGCAGCCTGGCTTCCACTACGT
CCTGCAGGTTGTGTCCAGTTCCACCGGCTTCTCAGCAATGTGGCCCCAGTGCGAGGGGACCAACTCTTCTCT
GTGCAACGTGGAGCGTAGTGTGAGCCATTTTGATGCCAAGTTGCTCTCCAAGTATGTCCCTGTGGCCAATCGCTA
TGAGGGCACTGAGGATGATTATGGTGATGACCTTCGACCAACTCGTTTGAGAAAGAGAAGCAGGACTATGTCTA
TTGCCCTGGAGTCATCCCTGCAGACCTACAACCCAGACTACGTCTGATGGTAGAAGACGATGCTGTACCAGAAGA
GCAGATCTTCCAGTCTTGGAGCACCTTCTGCGGGCTCGCTTCTCTGAGCCACATCTCAGAGATGCCCTTTATCT
CAAGCTGTATACCCCCGAGAGGCTCCAGCACTACATCAATCCAGAGCCCATGCGGATCCTGGAATGGGTTGGTGT
AGGCATGTTGCTGGGGCCCTTACTAACCTGGATATACATGAGGTTTGCCAGCCGCCAGGGTTTAGCTGGCCTGT
AATGCTCTTCTTCTCCCTGTATAGCATGGGTCTGGTGGAGCTGGTGGGTGCGCACTATTTCTGGAAGTGGCGG
GCTGAGTCCTTCCCTGTACAGTGTGGTTCCCTGCCCTCTCAGTGTGACCCCCAGCCATGCTCTTCCCGGCACCTGC
GGCCCGCCGACCCCTCACCTACCTGTCCCAAGTGTACTGCCACAAGGGCTTTGGCAAGGACATGGCACTGTACTC
GCTGTTGAGGGCCAAGGGAGAGAGGGCCTATGTAGTGGAGCCGAACCTCGTGAAACACATCGGGCTCTTCTCCAG
TCTCCGGTACAACTTTTCATCCAGTCTCCTCTAGGGTGCCAAGAGATGCCTTTCTGAAGTTGGCCACTTCTTGAA
GATTCAAATATTTATCTCTTTATTTAGACATGGTTGCCTGCAGGATTTTCACTGTTTACTGTTGTTAGAGATATA
GGCACTGGGGCAGCTGAGGAACCTCAATATGTTAAGAGCCTTGGCTTTGGTAGCCTCCTGGCAGGAGCAGCAGTT
TGCCACAGGTCCGGACCTCTCCCTCCACACAGCCACACTGCCTCATGCAGTCTGACCCACCCAGTGAGGGTGCAI
TTGAACACTGATTATATTCTCATTGTTTTTAAGCTCTGCTTTGTGTTAGAGCTTGTGACTGCCAAAAATTTTG
TGCACAGTGATATGACTGTTTTAGGATCTTAAGGGTAGAATTTTGTGAAAGGTGAGATCCTTTGGAATTGAGTTC
TTTCTCATTGGGTATGAAAATGGATGTATGTTTAGAATATATGCCCAACGAGGCAGGACCATGTGGATAGATTCC
ATTTGTTTCTTGACCTGATGTAATAAAAACTGATAAAAGCCGTGCAGTGCCCGGCATCTTGAAAAA
AAAAA

2670/2682
FIGURE 2430

MSTSTSPAAMLLRRLRRLSWGSTAVQLFILT VVTFGLLAPLACHRLLSYFYLRHWHLNQMSQEF LQQSLKEGEA
ALHYFEELPSANGSVPIVWQATPRPWLVIITVDRQPGFHYVLQVVSQFHRLLQQCGPQCEGHQLFLCNVERSV
SHFDAKLLSKYVPVANRYEGTEDDYGDDPSTNSFEKEKQDYVYCLESSLQTYNPDYVLMVEDDAVPEEQIFPVLE
HLLRARFSEPHLRDALY LKLYHPERLQHYINPEPMRILEWVGVM L LGPLL TWIYMR FASRPGFSWPV MLFFSLY
SMGLVELVGRHYFLELRLSPSLYSVVPASQCCTPAMLF PAPAARRTLT YLSQVYCHKGF GKDMALYSLLRAKGE
RAYVVEPNLVKHIGLFSSLRYNFHP SLL

2671/2682
FIGURE 2431

ATGGTATAAGATTAAATATATTAGTTATGAAAATAATTGTAAATGGCTTATTGAACTTATAGTCAGTAAAAATCA
TGTTTTTGAAATATGTAATGACTTTGGAAAATACCAGCAATATAATGTTAAGTGGGGAAAAAGCAAGTTACT
CCTCTGTAATACATATGATTTTAGTTTTGTAATAAAATCCCAACCATATATGCAC TTATAGGGAAACAAAGGA
CCCATCGCAAATGTTTTCCATGCTGATCTCCAAAGTGGTGAGTTTATGTGTGATTTTTATTTTGT TTTATGCICTT
CTGTATTTCCGAATTCATACAATAAATATCTGTTACTTTTACAATATG

2672/2682
FIGURE 2432

WYKIKYISYENNCKWLIELIVSKNHVFENYVMTLENTSNIMLSGEKSKLLLCNTYDFSFVIKIPNHICTYRETKD
PSQMFSMLISKVVSLCVIFILFMLFCIFRISYNKYLLLLQ

[illegible]

2674/2682
FIGURE 2434

MTVILFTQLTAPMAVILFTQLTAPMTVILFTQLTAPMAVILFTQLTAPMAVILFTQLTAPMAVILFTQLTAPMAV
ILFTQLTAPMAVMIVTMVTVALMV

2675/2682
FIGURE 2435

AAGCAAAATCAATCACGTTATTTTCAGCTCCGTTTCGACACAGGAAAAGGAAAAGAATGCACATGCCAAACAAGAA
GAAATTTGGTAAGAAAAGATTCAAGATATGGCCTTTATACACTAATTATTCTTAATAATTTTCATAAGTCCTTCTG
TCTTACCTAATTTCAATTTGTTTAACAGTAAGACTATATATACATTTCATACAAGAATCAAATATGCTAGCAGATA
AGACCGAAAGACTTCTTCAGGGCTCCTTGACCAAAAAAGTGTAGCATCCGACCAAAATTTCAAGAGAATATACTAG
GCTTTCCTTCACCATAGACCATCCACATTCTGAATACCTGTGACTTCATTCCGTAAAGCATCTCCCAAATGCAGAT
AATGTATTCAAATTACTACAAATCCAATTTTAACTCTACATACAAATAAAATATCTCAAGAGATAGCTGATGTAC
TTCATAGTATAAAC

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FIGURE 2436

AKSITLFSAPFDTGKGKECTCQTRRNLRKDSRYGLYTLIIILNFIISPSVLPNFICLTVRLYIHSYKNQTMLADK
TERLLQGS

2677/2682
FIGURE 2437

TCTGTACTCTGTGATCTCTTTTCCTTCATCCTTGCAGAAGGCTGGAAGCTTGCTTCTGGAGAAGGCTATGCACAC
TGGGAATACAGTTGAAAACCAGGGTACCACACTCAAACGAGTGTTACTATTATGTAAGATCACCAGTCTTCTTCC
CTCACCCAGCTTTCAGAATTCTGGCCAGAATAGAAGTGTCTTATCTAACCTGACCAGCTCAAGGTAAAAGACCTC
AAGAATCGGACATTGGCTGTGTCTGTGTCTCCAAAGAAAATGTCCCAGTCAGCTCACCCCTACTGTGAAACCCATA
TTGAATCCAGAACTTCTATTTAGTTTGTGTCTTTTTTCTCATAAAACAAATTTGTTATAGTCTTACTAAGATAT
AATTGGCATAGAATAAACTTTACACTTAAAGTGAAAACTTGAGTTCTGAGGCATGTATATATTTCCACAGTCGC
CACCACAGTCAGGTAATCATTCCCCTAAATTTTTTGTGCCTCCTTATCTTC

2678/2682
FIGURE 2438

LYSVISFPSSLQKAGSILLEKAMHTGNTIVENQGTTLKRVLLLCKITSLLPSPSFQNSGQNRSVLSNPDQLKVKDL
KNRTLAVSVSPKKMSQSAHPTVKPILNPELLFSLCPFFLINKFVIVLLRYNWHRINF TLKVKNLSSEACIYFHSR
HHSQVIIPLNFLCLLI

2679/2682
FIGURE 2439

ATGTTGGTGAAGATGGTACTTATCTTGGTGCCCAATCCGGTCCCTGCACCGACAATGACAAGGGCAACCAGCGCC
ACAATAATGGCGTATTCAATACCTGAGGCACCCTCGCTGCGTTTGAAGAACAGTTGCGTCTGCACGTTAAAGCTTC
ACTATCAGGTCAAGGAACATATGACTTCTCCCTAAAGCGCCACGGATTGCCGGTACGGCTCTAGCACGATCTACG
CGGCGTGCCACTAGAGCATTGTCAACAAACCCTGGGCTCACAACGTAAATAACGAGTTAATCACAAAGTATTAGT
CGCAAAGTTGGCGTCATAAAACCAAGCGTTCAAGGAGGCGGATCTTTAGTTCCGGTAAATTTTTTGTGAGATAAT
GGCATTTCGTCCTAGCTGAGCTACCTTCAAATAGCCAAATCGTTAGATGTTTCATCACAGCCAGGTTGCCAATTAA
CTCGTTTGGATTGGCGGGACTGTAGTGCAACCGGAAAGGGAGAGCCGTCATGAACAGTCGTATCAGCATGATCCT
GGCTGGCGTGCTGTTGGTCGGGGCGTTGATCGCGGGGTATTGGGGGCTGGTGCTGAGCCGCAACCCGCCCCCGTC
GCCGAACCTGTCATTTCTGCTGAAAAAACCGCGCTGACGCCGAAGACCAGACCCGCTCCCGGTGCTGGTGCTGGT
GCGCGATGTGCCGCTTTCGTGGCGCTGACGAAACGACTGGCGGGGAAAAGCTGGGCACGGTG

2680/2682
FIGURE 2440

MLVKMVLILVPNPVPAPTMTTRATSATIMAYSIPEAPSLRLKNSCVCT

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FIGURE 2441

CCTGATTAGTTGTGATGAATCAGCCCTTAACCTATTTCCATGGTTTGTGGAGATTGGTTCATTCTGAGTACAAT
AGGATGGTGGGATTTTGGCTTTAATGTTTCAATTTTAAACAGAATTCTAGACGCAGATCTAACATTCAAACCTGAATT
ATGTTTTCTGTAAAAGACGGTGAAATGTCTTGGATATATCCTCAGGATATGTCAGTGCTTTCTCATAAAATAAT
GTAAGCAATAGCATTTCCTATTGTTAGAGCATTGTTCTGGGTGGAATCTGTGTGGTGGTCTAGGGGCTGGAC
CTAGGGAAAT

2682/2682
FIGURE 2442

LISCDESALNLPWFVEIGSFLSTIGWWDFCFNVHFKQNSRRRSNIQTELCFLLKDGEMSWIYPQDMSVLCHKIM